Rich Road Solar Energy Center Matter No. 22-00031 §900-2.12 Exhibit 11: Terrestrial Ecology





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§ 900-2.12 Exhibit 11 Terrestrial Ecology

	Information	Found in Section
Exh	nibit 11 shall contain:	
a)	An identification and description of the type of plant communities present on the Facility	11.1
	Site, and adjacent properties within one hundred (100) feet of areas to be disturbed by	Appendix 11-A
	construction, including the interconnections, based upon field observations and data	
	collection.	
b)	An analysis of the temporary and permanent impact of the construction and operation of the facility and the interconnections on the vegetation identified, including a mapped	11.2
	depiction of the vegetation areas showing the areas to be removed or disturbed.	
c)	An identification and evaluation of avoidance measures or, where impacts are unavoidable, minimization measures, including the use of alternative technologies, regarding vegetation impacts identified.	11.3
d)	A list of the species of mammals, birds, amphibians, terrestrial invertebrates, and reptiles	11.4
	that are likely to occur based on ecological communities present at, and bird and bat migration routes through, the facility, supplemented as necessary by site surveys, site	Appendix 11-B
	observations and publicly available sources.	
e)	An analysis of the impact of the construction and operation of the facility and interconnections on wildlife, wildlife habitats, and wildlife travel corridors, other than a NYS threatened or endangered species or species of special concern (which will be addressed pursuant to section 900-2.13 of this Part).	11.5
f)	An identification and evaluation of avoidance measures or, where impacts are unavoidable, minimization measures, including the use of alternative technologies, regarding impacts to wildlife and wildlife habitat.	11.6

EXHIBIT 11

11.0 EXHIBIT 11 - TERRESTRIAL ECOLOGY

SUMMARY OF EXHIBIT

Rich Road Solar Energy Center, LLC (RRSEC) assessed potential impacts to terrestrial vegetation and wildlife resources associated with the construction and operation of the Facility. The Study Area for this exhibit consists of the Facility Site and the surrounding adjacent properties within a 100-foot buffer, as required by 19 New York Codes, Rules, and Regulations (NYCRR) § 900-2.12(a). This exhibit was prepared using information obtained from agency correspondence and publicly available sources, including reports, published literature, online databases, geographic information system data, and site-specific field surveys conducted in support of Exhibit 12 NYS Threatened and Endangered Species and Exhibit 14 Wetlands. This exhibit discusses impacts to species and habitats not currently listed as threatened or endangered in New York State. Exhibit 12 NYS Threatened or Endangered Species discusses impacts to threatened and endangered species and their habitats, including Blanding's turtle (*Emydoidea blandingii*) and select grassland bird species.

Construction and operation of the Facility will result in temporary disturbance due to vegetation clearing for construction and temporary laydown yard, as well as permanent impacts on vegetated habitats resulting from the Facility's access road conversion, pad-mounted inverters, battery energy storage system (BESS), operations and maintenance (O&M) building, collection substation, and switchyard station. Whenever possible, RRSEC sited these components to prioritize avoiding interior forests and wetlands, with the majority of them sited in agricultural areas. RRSEC avoided and minimized impacts to plant communities through siting and the layout, such that the majority of the impacts to plant communities will occurs in crop lands, including field and row crops. The siting of the Facility avoided the majority of the 1,059 acres of trees and woody plant communities in the Project Area, including limiting the area of disturbance within the Facility Site to completely avoid a total of 848 acres of woody vegetation within the larger Project Area.

All major ecological communities within parcels that will host Facility components are common in New York State. Therefore, no impacts to unique or rare natural communities will result from construction.

Changes in vegetation could influence the behavior of wildlife species by changing the quality and quantity of habitat for foraging, nesting, movement between habitats, or roosting (in the case of grassland bird species). Facility components were sited to minimize impacts to wildlife habitat, to the maximum extent practicable, by prioritizing avoidance of wildlife habitat, including forests, shrublands, and wetlands. Most of the Facility Site will be revegetated following construction. At the end of the Facility's lifespan, Facility components will be decommissioned, and the land will be restored as described in Exhibit 23 Site Restoration and Decommissioning. Following

decommissioning and restoration, lands within the Facility Site will return to their previous condition and use, including agriculture, depending on the intentions of the landowners.

11.1 PLANT COMMUNITIES (19 NYCRR § 900-2.12(a))

The Study Area for this exhibit consists of the Facility Site and adjacent properties within a 100-foot buffer surrounding the limit of disturbance (LOD). The Study Area is dominated by agricultural lands (croplands and pastureland, and deciduous forest), as outlined in detail below. Plant communities within the Study Area were further classified into specific community descriptions provided in *Ecological Communities of New York State* (Edinger et al. 2014) and mapped based on additional data collected during the 2022 field surveys. Figure 11-1 in Appendix 11-A depicts the following ecological communities:

- **Beech–maple mesic forest:** A hardwood forest comprising codominant sugar maple (*Acer saccharum*) and American beech (*Fagus grandifolia*) found on moist, well-drained, typically acidic soils.
- **Cropland/field crops:** A type of agricultural land with field crops, including alfalfa, wheat, timothy, and oats, as well as hayfields that are rotated to pastureland.
- **Cropland/row crops:** An agricultural field planted in row crops such as corn, potatoes, and soybeans. This community includes vegetable gardens in residential areas
- **Deep emergent marsh:** A marsh community that occurs on mineral soils or fine-grained organic soils (muck or well-decomposed peat); the substrate is flooded by waters that are not subject to violent wave action. Water depths can range from 6 inches to 6.6 feet; water levels may fluctuate seasonally, but the substrate is rarely dry, and there is usually standing water in the fall. This is a somewhat broadly defined type that includes several variants based on the dominant plants. Deep emergent marshes are quite variable. They may be codominated by a mixture of species, or have a single dominant species.
- **Pastureland:** A type of agricultural land permanently maintained as a pasture area for livestock.
- **Pine-northern hardwood forest:** A type of mixed forest found on gravelly outwash plains, delta sands, eskers, and dry lake sands in the Adirondacks. Dominant trees are white pine (*Pinus strobus*) and red pine (*P. resinosa*).
- Red maple-hardwood swamp: A hardwood swamp that occurs in poorly drained depressions, usually on inorganic soils. This is a broadly defined community with many regional and edaphic variants. In any given stand, red

maple (*Acer rubrum*) is either the only canopy dominant, or it is co-dominant with one or more hardwoods, including ashes (*Fraxinus pennsylvanica*, *F. nigra*, and *F. americana*), elms (*Ulmus americana* and *U. rubra*), yellow birch (*Betula alleghaniensis*), and swamp white oak (*Quercus bicolor*). The shrub layer is usually well developed and may be quite dense.

- **Vernal pool:** An ephemerally flooded shallow depression, surrounded by a fringe of red maple–hardwood swamp that quickly transitions to upland forest.
- Shallow emergent marsh: A marsh meadow community that occurs on mineral soil or deep muck soils (rather than true peat) that are permanently saturated and seasonally flooded. This marsh is better drained than a deep emergent marsh; water depths may range from 15 centimeters to 1 meter (6 inches to 3.3 feet) during flood stages, but the water level usually drops by midto late summer and the substrate is exposed during an average year. This is a very broadly defined type that includes several distinct variants and many intermediates. Shallow emergent marshes are very common and quite variable. They may be co-dominated by a mixture of species or have a single dominant species.
- **Shrub swamp:** A mostly inland wetland dominated by tall shrubs that occurs along the shore of a lake or river, in a wet depression or valley not associated with lakes, or as a transition zone between a marsh, fen, or bog and a swamp or upland community. The substrate is usually mineral soil or muck. A few examples may have a shallow layer of sphagnous peat. This is a very broadly defined type that includes several distinct communities and many intermediates. Shrub swamps are very common and quite variable. They may be co-dominated by a mixture of species or have a single dominant shrub species.
- **Successional northern hardwoods:** Successional northern hardwood forests are composed of hardwood or mixed forests that occur on sites that have been cleared or otherwise previously disturbed.
- Successional old field: A meadow dominated by forbs and grasses that occurs
 on sites that have been cleared and plowed (for farming or development), and
 then abandoned. Includes fields mowed at an interval (e.g., less than once per
 year) that favors the reproduction of characteristic successional old field species.
- **Successional shrubland:** A shrubland that occurs on sites that have been cleared or disturbed. This community has at least 50 percent cover of shrubs.

The Invasive Species Control and Management Plan and baseline mapping survey, prepared in compliance with 6 NYCRR Part 575, will be submitted during Pre-construction Compliance Filings in accordance with 19 NYCRR §900-10.2(f).

11.2 IMPACTS TO PLANT COMMUNITIES (19 NYCRR § 900-2.12(b))

Table 11.2-1 provides estimated acreages of impacts associated with temporary impacts, permanent conversion, and permanent impacts by plant community type. To estimate impacts to ecological communities, RRSEC developed the following potential impact classifications:

- Temporary Impacts within the Limit of Disturbance (LOD): This limit encompasses the anticipated outer bounds of where construction of the Facility may occur, including any necessary vegetation clearing. This boundary includes defined work corridors along Facility components, security fencing, and proposed planting modules and incorporates areas where construction vehicles and/or personnel may need extra room to construct the Facility, which are not otherwise counted as permanent conversion or permanent impact (defined below). These temporarily impacted areas will be restored following construction and will not be disturbed during Facility operation. These temporary impacts are presented with mapping of plant communities in Figure 11-1. The use of machinery to install Facility components within the LOD may also result in temporary soil impacts, further described in Exhibit 10 Geology, Seismology and Soils and Exhibit 15 Agricultural Resources.
- **Permanent Conversion**: Represents all areas that will have maintained vegetation for the life of the Facility in accordance with the Vegetation Management Plan, which will be submitted as a pre-construction compliance filing in accordance with 19 NYCRR § 900-10.2. This generally includes all areas within the fence line, areas adjacent to access roads outside the fence line where road edges will be mowed/maintained, areas adjacent to the collection substation and switchyard station, visual screening plantings, and areas maintained for stormwater purposes. These areas of permanent conversion do not include areas that will be allowed to naturally return to a vegetated state after construction is complete, such as collection line corridors.
- Permanent Impacts: Represents the Stormwater Pollution Prevention Plan Future Impervious Area, or all areas that will host built components of the Facility. These permanent impacts will include areas where the collection substation and switchyard station, inverters and transformers, BESS, O&M building, and access roads will be located. These areas will be cleared of all vegetation, graded, and grubbed prior to installation, where applicable. They represent

permanent impacts to existing plant communities during construction and operation of the Facility. Areas considered permanent impacts will be altered during construction and operation of the Facility. These areas will be restored following decommissioning of the Facility Site (see Exhibit 23 Site Restoration and Decommissioning for additional information).

As shown in Table 11.2-1, permanent impacts to existing plant communities during construction and operation of the Facility total 35 acres, or 2 percent of the Facility Site. Permanent conversion of existing plant communities to maintained vegetation impacts total approximately 1,133 acres, or 65 percent of the Facility Site and temporary impacts occur to 547 acres or 31 percent of the Facility Site. The majority of these temporary impacts reflect the portions of the Facility Site that will be maintained as perennial pasture for managed sheep grazing, as further described in Section 11.3.2 and in the Agricultural Co-Utilization Plan provided in Exhibit 15 Agricultural Resources, potentially reducing the areas permanently converted to managed vegetation.

Areas where agricultural activities will resume during operations will be seeded with a seed mix specified by the landowner/agricultural producer or as otherwise recommended in the New York State Department of Agriculture and Market's New York State Farmland: Seeding, Fertilizing and Lime Recommendations for Gas Pipeline Right-of-Way Restoration in Farmlands (revised June 5, 2015). In upland areas where agricultural activities will not resume, RRSEC anticipates revegetating graded areas with a seed mix designed for solar sites composed of fescues (Festuca spp.), Kentucky bluegrass (Poa pratensis), and white clover (Trifolium repens) or equivalent. For wetland areas that are temporarily impacted during construction, RRSEC anticipates reseeding with Ernst Conservation's OBL Wetland Mix, Southern Tier's Northeast Wetland Grass/Forb Mix, or an equivalent native obligate wetland seed mix appropriate to the site. The construction seeding plan will be submitted in the Vegetative Management Plan during Pre-construction Compliance Filings in accordance with 19 NYCRR §900-10.2. In areas of temporary construction impacts, RRSEC will not use herbicides to prevent sprouting and will not remove trees as part of routine vegetation management during operations, unless for emergency tree removal from storm damage. During operations, some temporary vegetation disturbance will occur from vehicular traffic in areas where photovoltaic (PV) panel arrays are installed.

All plant communities identified within the Study Area are common in New York State; therefore, no impacts to unique or rare natural communities will result from construction. Temporary and permanent impacts to plant communities will not result in the extirpation or significant reduction of any natural ecological community type, or in the significant reduction of any plant community type within the Study Area.

Table 11.2-1 Estimated Temporary and Permanent Impacts to Plant Communities within the Limits of Disturbance (acres)

Community Type ¹	Facility	Temporary	Permanent	Permanent	Total
Community Type	Site	Impacts ²	Conversion ³	Impact	Impacts ⁴
	Agric	cultural Areas			
Cropland / Field Crops	480	145	316	15	476
Cropland / Row Crops	679	96	567	13	676
Pastureland	308	229	72	6	306
Subtotal	1,467	471	954	33	1,458
	Foreste	ed Communities			
Beech-Maple Mesic Forest	6	2	5	-	6
Pine-Northern Hardwood Forest	22	3	19	<0.1	22
Red Maple-Hardwood Swamp	14	<0.1	13	<0.1	13
Successional Northern Forest	106	7	97	1	105
Subtotal	148	12	133	2	147
	Non- Fore	sted Communities			
Deep Emergent Marsh	1	1	-	-	1
Shallow Emergent Marsh	70	50	-	0.1	50
Shrub Swamp	18	0.1	10	-	10
Successional Old Field	5	5	<0.1	<0.1	5
Successional Shrubland	46	9	36	0.2	45
Subtotal	140	64	46	0.4	111
Total ⁴	1,755	547	1,133	35	1,716

Notes:

¹ Based on *Ecological Communities of New York* (Edinger et al. 2014), as described in Section 11.2.1.

² Temporarily impacted agricultural areas will return to agricultural uses following construction. Temporarily impacted ecological communities will be restored following construction and will be allowed to naturally revegetate.

³ Areas that will be cleared during construction and maintained as early successional communities during operations. The conversion of active row cropland to early successional communities is expected to result in a net benefit to wildlife and soil resources.

⁴ Rounded values.

⁻⁻ None

11.3 MEASURES TO AVOID OR MINIMIZE PLANT COMMUNITY IMPACTS (19 NYCRR § 900-2.12(c))

As described in Exhibit 2 Overview and Public Involvement, the siting process included desktop analyses and extensive field surveys to identify sensitive resources. The resulting Facility Site consists primarily of available flat, open, and appropriately oriented land for the panels and avoidance of sensitive resources in the Project Area. Within the Facility Site, RRSEC sited the majority of Facility components in previously disturbed agricultural land, thus avoiding significant impacts to sensitive plan communities. RRSEC sited access roads on existing roads and farm lanes wherever possible and confined areas of disturbance to the smallest practicable area, thus minimizing the LOD. As a result, RRSEC avoided and minimized impacts to plant communities through siting and the layout, such that the majority of the impacts to plant communities will occur in crop lands, including field and row crops. As shown in Table 11.2-1 above, crop lands represent approximately 44 percent of temporary impacts, 78 percent of permanent conversion, and 80 percent of permanent impacts to all plant communities. RRSEC's measures to avoid and minimize impacts to plant communities also include minimization of tree clearing, revegetation with plant communities suitable for co-utilization plan for managed sheep grazing, and construction and operation practices, described in detail below.

11.3.1 Woody Vegetation and Tree Clearing

RRSEC will further avoid impacts to sensitive plant communities, including trees and woody vegetation within shallow emergent marshes, deep emergent marshes, shrub swamps, and red maple-hardwood swamps. As shown on Figure 11-1, RRSEC sited the Facility to avoid New York State wetlands north of Array A, south of Jingleville Road and south of Array I. During consultations with the Town of Canton, town representatives expressed concerns about potential for extensive tree clearing for construction and operation. To address these concerns, and to protect sensitive plant communities, RRSEC sited the solar panels, substation, switchyard station, O&M building, and BESS within croplands to avoid tree clearing. Siting of the Facility and individual components also was designed to avoid and minimize impacts to sensitive plant communities mapped during wetland field surveys. As shown in Table 11.3-1, the Project Area contains approximately 1,059 acres of trees and woody plant communities. Siting of the Facility Site avoided a significant percentage of these resources and further limited the area of disturbance within the Facility Site to completely avoid a total of 848 acres of woody vegetation within the larger Project Area.

Table 11.3-1 Acres of Trees and Woody Plant Communities within the Limit of Disturbance, Facility Site, and Project Area

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	Limit of				
	Disturbance ¹	Facility Site	Project Area		
Beech-Maple Mesic Forest	6	102	219		
Pine-Northern Hardwood Forest	22	26	73		
Red Maple-Hardwood Swamp	14	75	159		
Vernal Pool (within wooded area)		5	5		
Shrub Swamp	18	69	176		
Successional Northern Forest	106	267	293		
Successional Shrubland	46	111	134		
Total ²	211	656	1,059		
Area Avoided ²	848	403			

Note:

The following are specific examples of siting to avoid areas of contiguous forest as shown in Figure 11-1 (parcel locations are depicted on Exhibit 4 Figure 4-2):

- Facility components avoid impacts on contiguous forest on parcels 87.004-1-21.121, 87.004-2-2, and 88.003-1.
- Array A on parcel 88.003-1-3.1-4 completely avoids impacts to a contiguous forested area.
- Array E on the western side of parcel 88.003-1-28 minimizes tree clearing for shading of the PV panels within a large contiguous forest bounding Church Brook.

As shown in 11.3-1, there are 211 acres of forest within the LOD. Of this 211 acres, the total impacts to forested areas encompasses 147 acres for construction and operation of Facility components to maintain efficiencies with construction and design (see Table 11.2-1). Whenever possible, RRSEC sited these components to prioritize avoiding interior forests and wetlands, with the majority sited within agricultural areas. Interior forest areas are not influenced by edge effects and are calculated using a 300-foot buffer from the edge of forest habitats (Gehlhausen et al. 2000). Interior forests are discussed in detail in Section 11.5.

¹ The limit of disturbance is within the Facility Site. The Facility Site is within the Project Area.

² Rounded values.

11.3.2 Co-Utilization of Agricultural Lands

RRSEC prioritized siting of Facility components on cropland and pasture, a majority of which will be considered permanent conversion or temporary impacts. Utilizing these cropland and pasture areas for Facility components and laydown areas during construction will result in minimal temporary impacts and minimal permanent impacts to native ecological communities.

RRSEC evaluated and designed the Facility Site for compatibility with establishment of perennial pasture for managed sheep grazing as a commercially viable co-location strategy. RRSEC developed an Agricultural Co-Utilization Plan, provided in Exhibit 15 Agricultural Resources, for potentially reducing the areas permanently converted to managed vegetation. RRSEC is coordinating with area farmers interested in scaling their livestock operations to meet this opportunity and other possible agrivoltaic options that may arise during the lifetime of the Facility. RRSEC proposes sheep grazing within all solar arrays, with exceptions for state-regulated wetlands occurring under solar panels (as outlined in Exhibit 14 Wetlands). As reflected in Table 11.2-1, up to 229 acres of land currently classified as pastureland may be utilized for sheep grazing during operations and will therefore only be temporarily impacted only during construction.

11.3.3 Construction and Operation Practices

RRSEC will employ alternative technologies to avoid and minimize clearing and earthmoving activities within wetlands, their adjacent areas, and their associated vegetation, thereby reducing resultant impacts to associated plant communities. For example, RRSEC will use trenchless technology, or horizontal directional drilling, to install collection lines under one state-regulated stream (W401) and use selective tree removal methods that minimize soil disturbance and retain the existing root biomass and seed bank (e.g., tree cutting using manual methods and/or the use of timber matting during mechanical tree removal). Exhibit 14 Wetlands provides further discussion of these practices.

Other measures to avoid or minimize impacts to vegetation include marking sensitive areas (such as wetlands) where no disturbance or vehicular activities will be allowed, educating the construction workforce on respecting and adhering to the physical boundaries of off-limit areas, employing best management practices during construction, and maintaining a clean work area within the designated construction sites. An independent environmental monitor will conduct inspections of areas requiring environmental compliance during construction activities, with an emphasis on those activities in sensitive areas. To protect adjacent undisturbed vegetation and other ecological resources, a comprehensive sediment and erosion control plan is provided in Exhibit 13 Water Resources and Aquatic Ecology, Appendix 13-B, Stormwater Pollution Prevention Plan.

An Invasive Species Control and Management Plan that includes prescribed measures to control invasive species throughout the area of disturbance will be developed for RRSEC, in accordance with 19 NYCRR § 900-10.2, Pre-Construction Compliance Filings.

Following construction activities, temporarily disturbed areas will be seeded (and stabilized with mulch and/or straw, if necessary) to reestablish vegetative cover in these areas. With the exception of active agricultural fields, native species will be allowed to revegetate temporarily disturbed areas. At the end of the Facility's life, RRSEC will remove Facility components and restore the land, as described in Exhibit 23 Site Restoration and Decommissioning. As discussed in Exhibit 15 Agricultural Resources, future soil productivity after decommissioning of the Facility is expected to remain and the replacement of row crops with diverse pollinator seed mix, which would include native species, may result in less soil erosion and improved soil conditions over time. Following completion of decommissioning and restoration, lands within the Study Area are expected to return to pre-construction conditions.

11.4 WILDLIFE AND WILDLIFE HABITAT (19 NYCRR § 900-2.12(D))

Appendix 11-B lists mammals, birds, amphibians, terrestrial invertebrates, and reptiles that may occur within the Study Area based on site surveys, site observations and publicly available sources, as required by 19 NYCRR § 900-2.12(d).

Wildlife and habitat potentially present within the Study Area were identified through a review of existing information obtained from publicly available sources, and the site-specific Wildlife Site Characterization Study provided in Exhibit 12 NYS Threatened and Endangered Species, Appendix 12-A), Wintering Grassland Raptor Surveys (Appendix 12-B), and Breeding Bird Surveys (Appendix 12-C). Exhibit 12 NYS Threatened or Endangered Species provides discussion of impacts to threatened and endangered species and their habitats. The following public data sources provided information on wildlife and habitats (citations for each are included in Appendix 12-A):

- New York's Environmental Assessment Form Mapper, maintained by the New York State Department of Environmental Conservation (NYSDEC);
- New York Natural Heritage Program (NYNHP);
- U.S. Fish and Wildlife Service Information for Planning and Conservation (IPaC) and Environmental Conservation Online System Databases (USFWS 2020);
- New York's Environmental Resource Mapper, maintained by NYSDEC (NYSDEC 2020a);
- NYSDEC Nature Explorer tool (NYSDEC 2020b);

- Checklist of the Amphibians, Reptiles, Birds and Mammals of New York, Including Their Protective Status, published by the NYSDEC Wildlife Diversity Group (NYSDEC 2019);
- Biodiversity and Wind Siting Mapping Tool, developed by The Nature Conservancy, New York Natural Heritage Program, and the New York State Energy and Research Development Authority;
- eBird (eBird 2020);
- Audubon Christmas Bird Counts;
- The U.S. Geological Service Breeding Bird Survey;
- The New York Breeding Bird Atlas III (NYSDEC 2020c);
- Data from the New York State Ornithological Association, Inc.;
- National Land Cover data (USGS 2019);
- U.S. Fish and Wildlife Service National Wetlands Inventory;
- NYSDEC Freshwater Wetland data;
- Species range maps for mammals provided by the International Union for Conservation of Nature (IUCN) (IUCN 2021);
- iNaturalist research-grade observations (Ueda 2021);
- The National Conservation and Easement database; and
- Data regarding other areas of interest (e.g., Audubon Important Bird Areas, national wildlife refuges, wildlife management areas, grassland focus areas, core forest blocks, and known bat hibernacula).

The presence of mammals, including small mammals, was determined using the *Checklist of the Amphibians, Reptiles, Birds and Mammals of New York, Including Their Protective Status* (NYSDEC 2019) and IUCN range maps. Presence of terrestrial invertebrates was determined using research-grade observations reported to iNaturalist for St. Lawrence County, New York.

The Facility Site is located within NYSDEC Grassland Focus Area 5, which extends along the St. Lawrence Valley and north of the Adirondack Mountains. Focus Area 5 contains breeding grounds for grassland species based on data from the third New York State Breeding Bird Atlas and Audubon New York surveys to identify regions supporting these core population (NYSDEC 2021). The Facility Site also abuts the southern portion of the Lisbon Grasslands Important Bird Area. This region is characterized as a large mosaic of wetlands and grasslands.

The NYNHP indicated that one state-listed threatened species, Blanding's turtle, was documented as occurring within 0.5 miles of the Facility Site. Exhibit 12 NYS Threatened or Endangered Species provides additional detail Blanding's turtle habitat within the Facility Site.

No special status lands occur within the Study Area. The National Conservation Easement database did not identify any easement blocks over 150 acres of contiguous forest within the Facility Site (TFPL and DU 2020). Additionally, the NYNHP and Nature Conservancy's Matrix Forest Blocks and Linkages dataset did not identify areas of large contiguous forest within the Facility Site (TNC Eastern Conservation Science 2012).

11.5 IMPACTS TO WILDLIFE, WILDLIFE HABITATS, AND WILDLIFE TRAVEL CORRIDORS (19 NYCRR § 900-2.12(e))

Construction-related impacts to wildlife are anticipated to be limited to habitat disturbance and loss, temporary displacement of wildlife due to behavioral disturbance, and incidental injury and mortality due to construction activity and vehicular movement. Operation-related impacts to wildlife include direct habitat impact, some habitat and travel corridor degradation through fragmentation, and disturbance/displacement due to presence of PV panel arrays.

Exhibit 12 NYS Threatened or Endangered Species provides discussion of impacts to threatened and endangered species and their habitats, including Blanding's turtle and select grassland bird species. The following discussion applies only to non-listed species.

Habitat Disturbance and Loss, Habitat Fragmentation

Changes in vegetation could influence the behavior of wildlife species by changing the quality and quantity of habitat for foraging, nesting, roosting, or movement between habitats. Facility components have been sited to minimize impacts to wildlife habitat by siting PV panel arrays in agricultural fields used to produce field and row crops to the maximum extent practicable. This will minimize the impacts to higher-quality wildlife habitat, including forests, shrublands, and wetlands. As shown in Table 11.2-1, crop lands represent the majority of temporary impacts, permanent conversion, and permanent impacts to vegetation. RRSEC developed an Agricultural Co-Utilization Plan, provided in Exhibit 15 Agricultural Resources, that potentially would reduce the areas permanently converted to managed vegetation. The replacement of row crops with diverse pollinator seed mix that would include natives may provide alternative suitable habitat for many species. It is anticipated that the majority of wildlife present in the Study Area will return to temporarily disturbed areas following construction.

Habitat fragmentation resulting from the Facility's operation may affect the movement within travel corridors, breeding, and/or roosting behavior of various species across the landscape. Facility fencing will limit access to habitats within the Facility Site to species incapable of passing through the chain-link fence. Examples include deer grazing or bedding in former hay fields, foxes hunting small mammals, or isolation from burrows for some mammals present before construction. Additionally, large, fenced areas may force wildlife to travel greater distances between habitat patches. Wherever possible, hedgerows were preserved to maintain travel corridors between habitat patches, although some will be eliminated resulting in greater travel distances between certain habitat patches. For example, several hedgerows around Array E will be preserved (see Exhibit 8 Visual Impacts Appendix 8-A Attachment 8-D Landscape Mitigation Plan).

Wherever feasible, RRSEC sited Facility components and limited temporary impacts from construction in areas currently used for field and row crops in an effort to minimize impacts from habitat fragmentation. Exclusion from habitats will be limited to fencing areas off from wildlife access. RRSEC sited fencing as close to PV array panels as practicable to minimize acreage of these areas. Fragmentation will primarily be limited to collection line and access road corridors through previously contiguous forest patches. Lastly, while the majority of tree clearing is on the edges of existing fields, the installation of panels in Arrays D and E will require clearing some interior forest, resulting in an increase of forest edges and edge effects. Interior forests are areas that are not influenced by edge effects and are calculated using a 300-foot buffer from the edge of forest habitats. As forestland is cleared for construction and operation of the Facility, this moves this 300-foot buffer inward, converting previously interior forest to exterior forest.

With regards to forestland birds, sensitivity to habitat fragmentation varies by species; forest interior species show the highest degree of sensitivity (Bannerman 1998). Of the total forestland within the Facility Site, 208 acres have been classified as interior forest. Construction will result in approximately 3.5 acres of interior forest clearing, as well as in the increase of approximately 1.3 acres of forest edge (edge effect). Facility components will not bisect any interior forests; therefore, no fragmentation impacts to forest interior species are expected locally within the Study Area, and a majority of contiguous sections of the forested areas within the Study Area will remain intact.

Within the NYSDEC Grassland Focus Area 5, construction will result in the permanent impact of 33 acres of cropland and pastureland, and 883 acres of cropland will be converted to early successional habitat within the Facility Site. However, of the total impacts to agricultural land, approximately 320 acres will occur in areas currently cultivated as field crops, which typically provide limited/marginal habitat for grassland birds. As such, direct impacts to NYSDEC Grassland Focus Area 5 and the adjacent Lisbon Grasslands Important Bird Area are not anticipated to result from facility construction or operation. In contrast, the maintained early successional areas under PV panel arrays are expected to provide considerable habitat value for many wildlife species, including some grassland bird species. This landscape contains an extensive network of

agricultural land, including cropland and pastureland. Given the extent of available agricultural and grassland habitat adjacent to the Facility Site and beyond the Study Area, impacts to these habitats do not represent significant fragmentation impacts at the landscape or regional level.

Forested fragmentation effects on bats are not well understood, and the effects may vary across species based on preferred prey, foraging areas, roosting needs, and flight morphology. Although measures to avoid direct take of bats will be implemented for tree clearing, suitable roosting areas for some species may be lost due to tree clearing associated with construction. However, suitable roosting habitat is prevalent throughout the region and near the Facility Site, and construction will only permanently affect 16 percent of forested lands within the Study Area. Additionally, the creation of open areas and forest edge may benefit some species, such as little brown bat (*Myotis lucifugus*) and big brown bat (*Eptesicus fuscus*), by increasing foraging opportunities. Given the small percentage of forested habitat impacted, and the fact that the majority of forest impacts are on the edges of forests, it is unlikely that habitat fragmentation will have a significant impact on any bat species.

The U.S. Fish and Wildlife released its final rule to reclassify the northern long-eared bat (*Myotis septentrionalis*) as an endangered species under the Endangered Species Act beginning January 30, 2023. However, this species was not identified in the Wildlife Site Characterization report as being present within the Study Area (see Exhibit 12 NYS Threatened or Endangered Species, Section 12.2) and was also not included in the draft Determination of Occupied Habitat and Incidental Take and Net Conservation Benefit received from the Office of Renewable Energy Siting (see Exhibit 12 NYS Threatened or Endangered Species Section 12.4).

Behavioral Disturbance and Displacement

Some wildlife displacement may occur due to increased noise and human activity associated with construction. The significance of this impact will vary by species and the seasonal timing of construction activities. Impacts are expected to be minimal given the limited value to wildlife of the impacted areas. As discussed above, the majority of land within the Facility Site is subject to frequent mechanical disturbance associated with farming activities; therefore, it is anticipated that most wildlife encountered will be accustomed to mechanical disturbances associated with large equipment. Outside of localized displacement due to construction disturbance in the immediate vicinity of Facility components, no significant displacement impacts on wildlife species are anticipated during construction.

Habitat alteration and disturbance resulting from operations may render some areas within the Facility Site unsuitable or less suitable for nesting, foraging, roosting, or other wildlife use. All perimeter fencing will include a minimum 6-inch gap left at the bottom to allow animal movement (primarily turtles) through the Facility Site. Therefore, fencing off areas may result in permanent displacement of larger animals unable to pass under the 4-by-4-inch wire knot fence. However, RRSEC sited Facility components mainly on agricultural land subject to frequent disturbances associated with farming activities such as tilling, plowing, pesticide mowing/harvesting, and livestock grazing. PV panel arrays, the substation, O&M building, and the BESS have been preferentially sited in active agricultural areas to avoid the need to clear significant areas of forest or impact other valuable wildlife habitat such as wetlands. Given that the area underneath the PV panel arrays will be maintained as early successional habitat during operation, it is expected that more generalist grassland avian species, small mammals, terrestrial invertebrates, reptiles, and amphibians will successfully utilize these areas. However, the presence of PV panel arrays may render these habitats unsuitable for certain species that will otherwise utilize these areas for foraging, roosting, and breeding habitat, particularly bird species that generally require large, open grassland areas to hunt for insects or small mammals and establish breeding territories. This displacement of avian and larger mammalian predators may result in an increased number of prey species within the fence line and under the PV panels.

Incidental Injury or Mortality

Direct impacts from construction may include incidental injury or mortality due to construction equipment. Potential mortality is expected to be low because equipment used in solar energy facility construction generally moves at slow rates or is stationary for long periods (e.g., earthmoving equipment and pile-driving equipment). In addition, much of the land directly impacted within the Facility Site is currently used to produce field crops. Such areas typically provide limited food and cover for most wildlife species and are routinely subject to disturbance-related farming activities (e.g., plowing, mowing, and pesticide application).

Incidental injury and mortality during Facility construction should be limited to juvenile and sedentary/slow-moving species that are unable to move out of the area disturbed by construction, such as small mammals, ground-nesting bird eggs and hatchlings, reptiles, amphibians, and invertebrates. More mobile species and mature individuals should be able to vacate areas disturbed by construction. Vehicle-related mortality may increase temporarily due to increased traffic during construction; however, as traffic decreases upon the completion of construction, so will the potential for wildlife-vehicle collisions.

11.6 MEASURES TO AVOID OR MINIMIZE IMPACTS TO WILDLIFE AND WILDLIFE HABITATS (19 NYCRR § 900-2.12(f))

RRSEC will avoid and minimize impacts to wildlife and wildlife habitat through careful siting of Facility components. Whenever possible, Facility components have been sited on agricultural land, thus avoiding significant impacts to high-value and sensitive habitats. Approximately 0.5 acres of interior forest within the Facility Site will be cleared beyond the fence line around panel arrays, and approximately 1.3 acres of interior forest will be converted to forest edge habitat throughout the Facility Site. However, the majority of the interior forest within the Facility Site will not be impacted, and ecologically valuable communities within the Study Area will be largely protected from disturbance. Facility access roads will be sited on existing roads and farm lanes wherever possible, and areas of disturbance will be confined to the smallest practicable area.

The following are specific examples of careful siting of Facility components to avoid and minimize forest impacts (parcel locations are depicted on Exhibit 4 Figure 4-2):

- Parcels 87.004-1-21.121, 88.003-1-3.1, 87.004-2-2, and 88.003-1: Facility components were sited to completely avoid a contiguous forested area adjacent to Array A.
- Parcel 88.003-1-28: PV Panels in Array E were sited to minimize tree clearing at the edges of a large contiguous forested area along Church Brook.

Alternative technologies will be employed to avoid and minimize clearing and earthmoving activities within wetlands, their adjacent areas, and their associated vegetation, thereby reducing resultant impacts to associated wildlife and wildlife habitat. These include the use of trenchless technologies to install collection lines under one state-regulated stream (W401) and selective tree removal methods that minimize soil disturbance and retain the existing root biomass and seed bank (e.g., tree cutting using manual methods and/or the use of timber matting during mechanical tree removal). See Exhibit 14 Wetlands for further discussion.

RRSEC will adhere to the Uniform Standards and Conditions outlined in Table 11.3-1 to further avoid and minimize impacts to wildlife and wildlife habitat during construction, including the requirement that all construction activity be limited to the designated LOD and minimizing tree and vegetation clearing for Facility construction and operations.

11.7 UNIFORM STANDARDS AND CONDITIONS

Table 11.7-1 identifies the applicable Uniform Standards and Conditions for this exhibit.

Table 11.7-1 Applicable Uniform Standards and Conditions for Terrestrial Ecology

Citation

Uniform Standards and Conditions

§900-6.4 (b)

Environmental and Agricultural Monitoring.

- (1) The permittee shall hire an independent, third-party environmental monitor to oversee compliance with environmental commitments and siting permit requirements. The environmental monitor shall perform regular site inspections of construction work sites and, in consultation with the NYSDPS, issue regular reporting and compliance audits.
- (2) The environmental monitor shall have stop work authority over all aspects of the facility. Any stop work orders shall be limited to affected areas of the facility. Copies of the reporting and compliance audits shall be provided to the host town(s) upon request.
- (3) The permittee shall identify and provide qualifications and contact information for the independent, third-party environmental monitor to the NYSDPS, with a copy to the Office.
- (4) If the environmental monitor is not qualified, the permittee shall also retain an independent, third-party agriculture-specific environmental monitor as required in section 900-6.4(s) of this Part.
- (5) The permittee shall ensure that its environmental monitor and agricultural monitor are equipped with sufficient access to documentation, transportation, and communication equipment to effectively monitor the permittee's contractor's compliance with the provisions of the siting permit with respect to such permittee's facility components and to applicable sections of the Public Service Law, Executive Law, Environmental Conservation Law (ECL), and Clean Water Act Section 401 Water Quality Certification.

Table 11.7-1 Applicable Uniform Standards and Conditions for Terrestrial Ecology

Citation

Uniform Standards and Conditions

§900-6.4 (e)

Flagging. At least two (2) weeks before tree clearing or ground disturbing activities, the permittee shall stake or flag the planned limits of disturbance (LOD), the boundaries of any delineated NYS-regulated wetlands, waterbodies or streams in the LOD (as identified in the delineations prepared pursuant to sections 900-1.3(e) and (f) of this Part), and any known archeological sites identified in the approved Cultural Resources Avoidance, Minimization and Mitigation Plan required in section 900-10.2(g) of this Part, all on or off ROW access roads, limits of clearing and other areas needed for construction, including, but not limited to, turbine or solar array work areas, proposed infiltration areas for post-construction stormwater management, and laydown and storage areas. In addition, archeological sites shall be surrounded with construction fencing and a sign stating restricted access.

§900-6.4 (m)

General Environmental Requirements.

- (1) Limits of Disturbance (LOD). Construction shall not directly disturb areas outside the construction limits shown on the design drawings.
- (4) E&S Materials. Permanent erosion control fabric or netting used to stabilize soils prior to establishment of vegetative cover or other permanent measures shall be one hundred (100) percent biodegradable natural product, excluding silt fence. Use of hay for erosion control or other construction-related purposes is prohibited to minimize the risk of introduction of invasive plant species.
- (5) Spill Kits. All construction vehicles and equipment shall be equipped with a spill kit. All equipment shall be inspected daily for leaks of petroleum, other fluids, or contaminants; equipment may only enter a stream channel if found to be free of any leakage. Any leaks shall be stopped and cleaned up immediately. Spillage of fuels, waste oils, other petroleum products or hazardous materials shall be reported to the NYSDEC's Spill Hotline within two (2) hours, in accordance with the NYSDEC Spill Reporting and Initial Notification Requirements Technical Field Guidance (see section 900-15.1(i)(1)(iii) of this Part). The Office and the NYSDPS shall also be notified of all reported spills in a timely manner.

Table 11.7-1 Applicable Uniform Standards and Conditions for Terrestrial Ecology

Citation

Uniform Standards and Conditions

- (6) Construction Debris. Any debris or excess construction materials shall be removed to a facility duly authorized to receive such material. No burying of construction debris or excess construction materials is allowed.
- (7) Clearing Areas. Tree and vegetation clearing shall be limited to the minimum necessary for facility construction and operation, and as detailed on final construction plans.
- (8) Clearing Methods. When conducting clearing, the permittee shall: (i) Comply with the provisions of 6 NYCRR Part 192, Forest Insect and Disease Control, and ECL Section 9-1303 and any quarantine orders issued thereunder; (ii) Not create a maximum wood chip depth greater than three (3) inches, except for chip roads (if applicable), nor store or dispose wood chips in wetlands, within stream banks, delineated floodways, or active agricultural fields; (iii) Not dispose of vegetation or slash by burning anywhere or burying within a wetland or adjacent area; and (iv) Coordinate with landowners to salvage merchantable logs and fuel wood. Where merchantable logs and fuel wood will not be removed from the Facility Site during clearing activities, final construction plans shall indicate locations of stockpiles to be established for removal from site or future landowner resource recovery.
- (9) Invasive Insects. To control the spread of invasive insects, the permittee shall provide training for clearing and construction crews to identify the Asian Longhorn Beetle and the Emerald Ash Borer and other invasive insects of concern as a potential problem at the Facility Site. If these insects are found, they shall be reported to the NYSDEC as soon as practicable.

11.8 REFERENCES

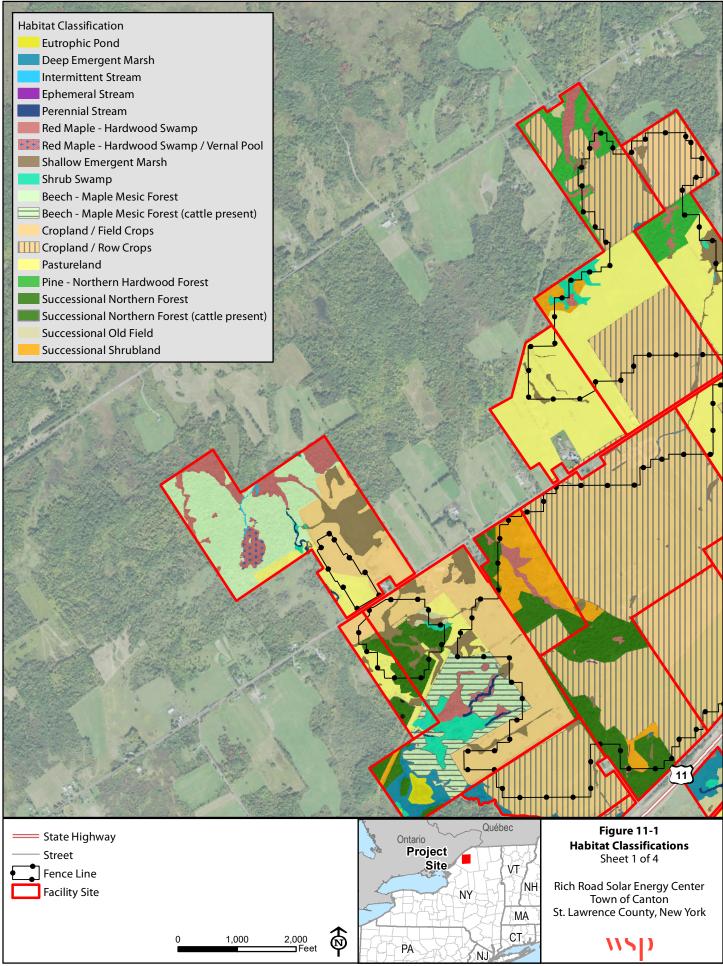
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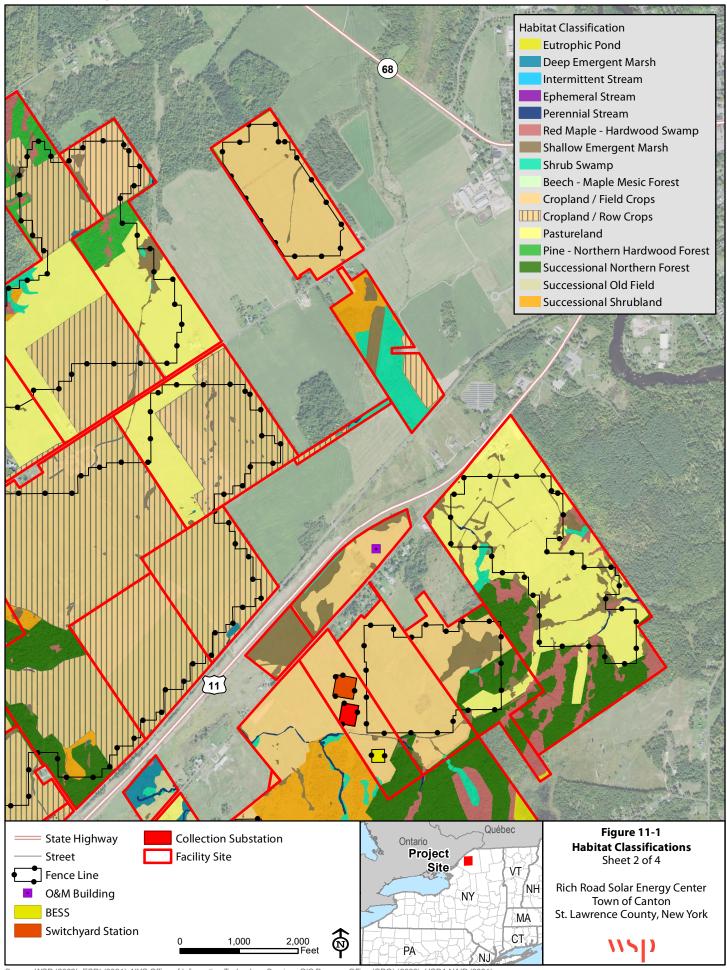
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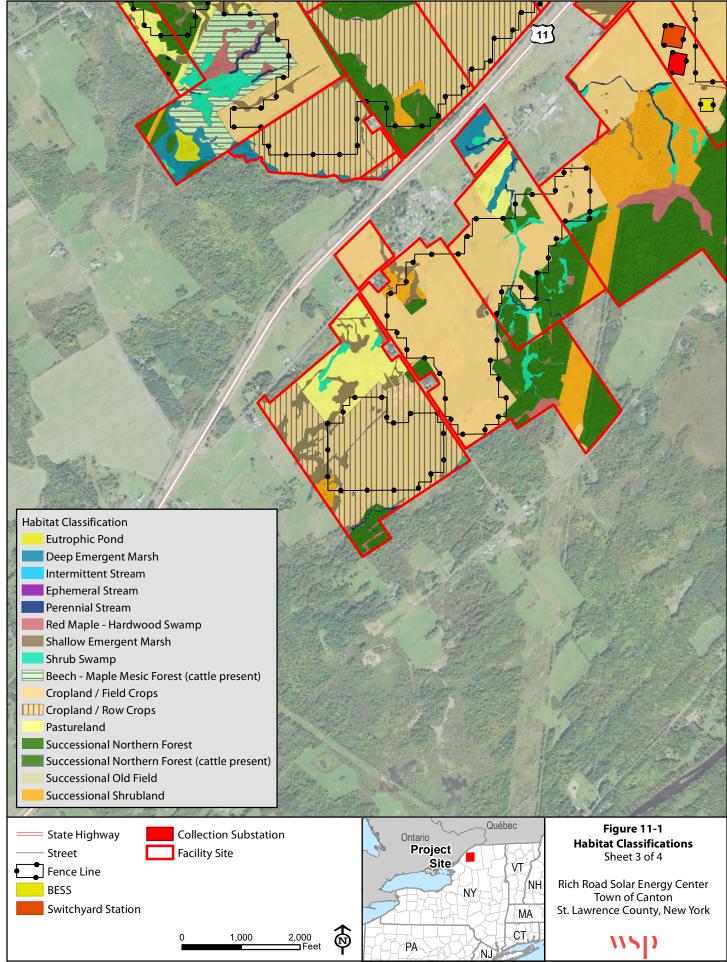
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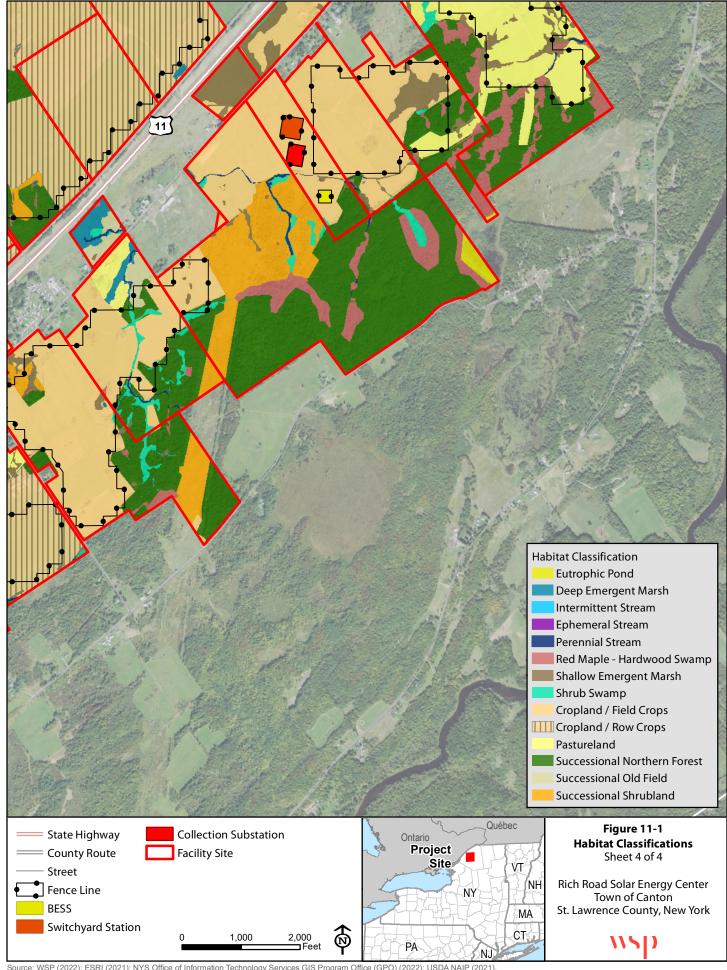
Appendix 11-A Figures

EXHIBIT 11 A-1









Appendix 11-B Wildlife Species Potentially Present within the Study Area

EXHIBIT 11 B-1

Common		Conservation	
Name	Scientific Name	Status	Source ¹
		Status	
Birds			
Ducks, Geese	<u>Anatidae</u>		
and Waterfowl			
Snow Goose	Chen caerulescens	NL	Appendix 12-B Wintering Grassland Raptor
			Survey
			Nature Explorer, Appendix 12-A Wildlife Site
Canada Goose	Branta canadensis	NL	Characterization Report, Appendix 12-B
cariada Goose	Dranta canadensis	112	Wintering Grassland Raptor Survey, Appendix
			12-C Breeding Bird Survey
Trumpeter	Cuanus hussinator	NL	Appendix 12-A Wildlife Site Characterization
Swan	Cygnus buccinator	INL	Report
· 15 1	4.	NII	Nature Explorer, Appendix 12-C Breeding Bird
Wood Duck	Aix sponsa	NL	Survey
	Mareca strepera	NL	Appendix 12-A Wildlife Site Characterization
Gadwall			Report
	Anas platyrhynchos	NL	Nature Explorer, Appendix 12-B Wintering
Mallard			Grassland Raptor Survey, Appendix 12-C
			Breeding Bird Survey
American Black			Nature Explorer, Appendix 12-A Wildlife Site
Duck	Anas rubripes	SGCN - HP	Characterization Report
Green-winged			Appendix 12-A Wildlife Site Characterization
Teal	Anas carolinensis	NL	Report
Ring-necked			Appendix 12-A Wildlife Site Characterization
Duck	Aythya collaris	NL	Report Report
Common			Appendix 12-A Wildlife Site Characterization
Goldeneye	Bucephala clangula	NL	• •
			Report
Hooded	Lophodytes cucullatus	NL	Nature Explorer
Merganser	*		·
Common	Mergus merganser	NL	Nature Explorer, Appendix 12-A Wildlife Site
Merganser			Characterization Report
Red-breasted	Mergus serrator	NL	Appendix 12-A Wildlife Site Characterization
Merganser			Report
Blue-winged	Spatula discors	NL	Nature Explorer
Teal	spatata discors	INL	Nature Explorer

Table 11.B-1 Wildlife Species Potentially Present within the Study Area					
Common Name	Scientific Name	Conservation Status	Source ¹		
Pheasants, Grouse, Allies	<u>Phasianidae</u>				
Ring-necked Pheasant	Phasianus colchicus	NL	Nature Explorer		
Ruffed Grouse	Bonasa umbellus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey		
Wild Turkey	Meleagris gallopavo	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey		
<u>Grebes</u>	<u>Podicipedidae</u>				
Pied-billed Grebe	Podilymbus podiceps	ST	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report		
<u>Pigeons, Doves</u>	<u>Columbidae</u>				
Rock Pigeon	Columba livia	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey		
Mourning Dove	Zenaida macroura	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey		
Cuckoos	<u>Cuculidae</u>				
Yellow-billed Cuckoo	Coccyzus americanus	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey		
Black-billed Cuckoo	Coccyzus erythropthalmus	NL	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey		
<u>Nightbirds</u>	<u>Caprimulgidae</u>				
Common Nighthawk	Chordeiles minor	SSC	Nature Explorer		
Eastern Whip- poor-will	Antrostomus vociferus	SSC	Appendix 12-A Wildlife Site Characterization Report		
<u>Swifts</u>	<u>Apodidae</u>				
Chimney Swift	Chaetura pelagica	NL	Nature Explorer		
<u>Hummingbirds</u>	<u>Trochilidae</u>				
Ruby-throated Hummingbird	Archilochus colubris	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey		

Table 11.b-1 W	Table 11.B-1 Wildlife Species Potentially Present within the Study Area					
Common Name	Scientific Name	Conservation Status	Source ¹			
Rails, Gallinules, and Coots	<u>Rallidae</u>					
Virginia Rail	Rallus limicola	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report			
Sora	Porzana carolina	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report			
American Coot	Fulica americana	NL	Nature Explorer			
<u>Cranes</u>	<u>Gruidae</u>					
Sandhill Crane	Grus canadensis	NL	Appendix 12-A Wildlife Site Characterization Report			
<u>Plovers</u>	<u>Charadriidae</u>					
Killdeer	Charadrius vociferus	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey			
American Golden Plover	Pluvialis dominica	NL	Appendix 12-A Wildlife Site Characterization Report			
Lesser Yellowlegs	Tringa flavipes	NL	Appendix 12-A Wildlife Site Characterization Report			
Sandpipers	<u>Scolopacidae</u>					
Upland Sandpiper	Bartramia longicauda	ST	Nature Explorer			
American Woodcock	Scolopax minor	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report			
Wilson's Snipe	Gallinago delicata	NL	Nature Explorer			
Spotted Sandpiper	Actitis macularius	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report			
Buff-breasted Sandpiper	Calidris subruficollis	NL	Appendix 12-A Wildlife Site Characterization Report			
Semipalmated Sandpiper	Caladris pusilla	NL	Appendix 12-A Wildlife Site Characterization Report			
Short-billed Dowitcher	Limnodromus griseus	NL	Appendix 12-A Wildlife Site Characterization Report			

idae us delawarensis us argentatus us marinus	NL NL	Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
us delawarensis us argentatus	NL	Survey, Appendix 12-C Breeding Bird Survey Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
us argentatus	NL	Survey, Appendix 12-C Breeding Bird Survey Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
		Survey, Appendix 12-C Breeding Bird Survey
us marinus	NII	A
	NL	Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey
idonias niger	SE	Appendix 12-A Wildlife Site Characterization Report
rna hirundo	ST	Appendix 12-A Wildlife Site Characterization Report
<u>riidae</u>		
via immer	SSC	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
<u>eidae</u>		
aurus lentiginosus	SSC	Nature Explorer
brychus exilis	ST	Nature Explorer
ea herodias	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey
orides virescens	NL	Nature Explorer
<u>hartidae</u>		
hartes aura	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Sur- vey
<u>ipitridae</u>		
ndion haliaetus	SSC	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
iaeetus cocephalus	ST	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
	ria hirundo riidae ria immer eidae aurus lentiginosus orychus exilis ea herodias orides virescens hartidae hartes aura ipitridae dion haliaetus	ria hirundo ST riidae ria immer SSC eidae raurus lentiginosus SSC rrychus exilis ST ea herodias NL orides virescens NL hartidae thartes aura NL ipitridae dion haliaetus SSC

Common	ildlife Species Potentia	Conservation	in the Study Alea
Name	Scientific Name	Status	Source ¹
Northern			Nature Explorer, Appendix 12-A Wildlife Site
Harrier	Circus hudsonius	ST	Characterization Report
Sharp-shinned			Nature Explorer, Appendix 12-A Wildlife Site
Hawk	Accipiter striatus	SSC	Characterization Report
			Nature Explorer, Appendix 12-A Wildlife Site
Cooper's Hawk	Accipiter cooperii	SSC	Characterization Report, Appendix 12-B
			Wintering Grassland Raptor Survey
NI d			Nature Explorer, Appendix 12-A Wildlife Site
Northern	Accipiter gentilis	SSC	Characterization Report, Appendix 12-B
Goshawk			Wintering Grassland Raptor Survey
Red-shouldered	Desta a line active	CCC	Nature Explorer, Appendix 12-A Wildlife Site
Hawk	Buteo lineatus	SSC	Characterization Report
Broad-winged	Putoo platuntorus	NL	Nature Explorer, Appendix 12-C Breeding Bird
Hawk	Buteo platypterus	INL	Survey
Red-tailed	Buteo jamaicensis		Nature Explorer, Appendix 12-B Wintering
Hawk		NL	Grassland Raptor Survey, Appendix 12-C
памк			Breeding Bird Survey
Rough-legged	Buteo lagopus	NL	Appendix 12-A Wildlife Site Characterization
Hawk			Report, Appendix 12-B Wintering Grassland
TIAWK			Raptor Survey
Golden Eagle	Aquila chrysaetos	SE	Nature Explorer, IPaC, Appendix 12-A Wildlife
			Site Characterization Report
<u>Owls</u>	<u>Strigidae</u>		
Barn Owl	Tyto alba	SGCN - HP	Nature Explorer
Eastern	Megascops asio	NL	Nature Explorer
Screech-Owl	- reguscops usto	112	·
Great Horned	Bubo virginianus	NL	Nature Explorer, Appendix 12-B Wintering
Owl			Grassland Raptor Survey
Barred Owl	Strix varia	NL	Nature Explorer, Appendix 12-B Wintering
			Grassland Raptor Survey
Long-eared Owl	Asio otus	NL	Nature Explorer
Snowy Owl	Bubo scandiacus	SSC	Appendix 12-A Wildlife Site Characterization
, .			Report
Short-eared			Appendix 12-A Wildlife Site Characterization
Owl	Asio flammeus	SE	Report
~ vv i			

Common	ildlife Species Potentia	Conservation	in the Study Area
Name	Scientific Name	Status	Source ¹
<u>Kingfishers</u>	Alcedinidae	Status	
Belted	Accedimade		
Kingfisher	Megaceryle alcyon	NL	Nature Explorer
	Dicidao		
<u>Woodpeckers</u>	<u>Picidae</u>		
Red-headed	Melanerpes	SSC	Nature Explorer
Woodpecker	erythrocephalus		
Red-bellied			Nature Explorer, Appendix 12-B Wintering
Woodpecker	Melanerpes carolinus	NL	Grassland Raptor Survey, Appendix 12-C
			Breeding Bird Survey
Yellow-bellied			Nature Explorer, IPaC, Appendix 12-A Wildlife
Sapsucker	Sphyrapicus varius	NL	Site Characterization Report, Appendix 12-C
			Breeding Bird Survey
Downy	Picoides pubescens	NL	Nature Explorer, Appendix 12-C Breeding Bird
Woodpecker			Survey
Hairy	Picoides villosus	NL	Nature Explorer, Appendix 12-B Wintering
Woodpecker	r icoldes villosas		Grassland Raptor Survey
			Nature Explorer, Appendix 12-A Wildlife Site
Northern Flicker	Colaptes auratus	NL	Characterization Report, Appendix 12-C
			Breeding Bird Survey
Pileated	Dryocopus pileatus	NL	Nature Explorer, Appendix 12-B Wintering
Woodpecker	Бтуосориз ршейниз		Grassland Raptor Survey
<u>Falcons</u>	<u>Falconidae</u>		
American			Nature Explorer, Appendix 12-B Wintering
Kestrel	Falco sparverius	NL	Grassland Raptor Survey, Appendix 12-C
Kestrer			Breeding Bird Survey
Merlin	Falco columbarius	NL	Nature Explorer, Appendix 12-A Wildlife Site
	Falco columbarius	INL	Characterization Report
Peregrine	Falco porogripus	SE	Appendix 12-A Wildlife Site Characterization
Falcon	Falco peregrinus	SE	Report
<u>Tyrant</u>	Turannidaa		
<u>Flycatchers</u>	<u>Tyrannidae</u>		
Eastern Wood-	Contopus virens	NII	Nature Explorer, Appendix 12-C Breeding Bird
Pewee		NL	Survey
Acadian	Facilities :	NII	Appendix 12-A Wildlife Site Characterization
Flycatcher	Empidonax virescens	NL	Report
Flycatcher	,		Keport

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	N. F. L. A. II 40 AVENUE OF
Alder Flycatcher	Empidonax alnorum	norum NL	Nature Explorer, Appendix 12-A Wildlife Site
			Characterization Report
Willow	Empidonax traillii	NL	Nature Explorer, Appendix 12-A Wildlife Site
Flycatcher			Characterization Report
Least Flycatcher	Empidonax minimus	NL	Nature Explorer, Appendix 12-A Wildlife Site
	Emplaoriax minarias	146	Characterization Report
Eastern Phoebe	Sayornis phoebe	NL	Nature Explorer, Appendix 12-C Breeding Bird
Lastern i noche	зауотна рносьс	IVL	Survey
Great Crested			Nature Explorer, Appendix 12-A Wildlife Site
	Myiarchus crinitus	NL	Characterization Report, Appendix 12-C
Flycatcher			Breeding Bird Survey
Factors			Nature Explorer, Appendix 12-A Wildlife Site
Eastern	Tyrannus tyrannus	NL	Characterization Report, Appendix 12-C
Kingbird			Breeding Bird Survey
<u>Vireos</u>	<u>Vireonidae</u>		
Vallage threats -			Nature Explorer, Appendix 12-A Wildlife Site
Yellow-throated	Vireo flavifrons	NL	Characterization Report, Appendix 12-C
Vireo	, ,		Breeding Bird Survey
Blue-headed			Nature Explorer, Appendix 12-A Wildlife Site
Vireo	Vireo solitarius	NL	Characterization Report
Warbling Vireo	Vireo gilvus	NL	Nature Explorer
			Nature Explorer, Appendix 12-C Breeding Bird
Red-eyed Vireo	Vireo olivaceus	NL	Survey
Philadelphia	.,, .,,		•
Vireo	Vireo philadelphicus	NL	Nature Explorer
<u>Shrikes</u>	<u>Laniidae</u>		
			Appendix 12-A Wildlife Site Characterization
Northern Shrike	Lanius excubitor	NL	Report, Appendix 12-B Wintering Grassland
			Raptor Survey
Loggerhead	Lanius ludovicianus	SE	NYSDEC Wildlife Diversity Group, IUCN
Shrike	Earnas tadovicianas	JL	
James Com	Comide		
Jays, Crows	<u>Corvidae</u>		N
DI .			Nature Explorer, Appendix 12-B Wintering
Blue Jay	Cyanocitta cristata	NL	Grassland Raptor Survey, Appendix 12-C
			Breeding Bird Survey

American Crow	Scientific Name	Conservation	Source ¹
American Crow		Status	Source
bı	Corvus Prachyrhynchos	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
Common Raven Co	Corvus corax	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
<u>Titmice</u> <u>Po</u>	<u>Paridae</u>		
Black-capped Chickadee	Poecile atricapillus	NL	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
Tufted Titmouse	aeolophus bicolor	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey
<u>Larks</u> <u>A</u>	<u>llaudidae</u>		
Horned Lark Er	remophila alpestris	SSC	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
<u>Swallows</u> <u>H</u>	<u>lirundinidae</u>		
Purple Martin Pi	Progne subis	NL	Nature Explorer
Tree Swallow To	achycineta bicolor	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey
Rough-winged	telgidopteryx erripennis	NL	Nature Explorer
Bank Swallow Ri	?iparia	NL	Nature Explorer
Cliff Swallow	Petrochelidon yrrhonota	NL	Nature Explorer
Barn Swallow H	lirundo rustica	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey
<u>Kinglets</u> <u>Re</u>	<u>Pegulidae</u>		
Golden- crowned Kinglet	Pegulus satrapa	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
Ruby-crowned Kinglet	Pegulus calendula	NL	NYSDEC Wildlife Diversity Group, IUCN

Common Name Scientific Name Conservation Status Source¹ Nuthatches Sittidae NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report White-breasted Nuthatch Sitta carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Brown Creepers Certhiidae NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Brown Creeper Certhia americana NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Gnatcatchers Polioptilidae NL Nature Explorer Blue-gray Polioptila caerulea NL Nature Explorer Wrens Troglodytes aedon NL Characterization Report Winter Wren Troglodytes aedon NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Winter Wren Troglodytes hiemalis NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Sedge Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Garolina Wren Thryothorus Iudovicianus NL Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Bree	Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Name Nuthatches Sittidae Red-breasted Nuthatch Nuthatch Sitta canadensis NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer, Appendix 12-C Breeding Bird Survey Treecreepers Certhia americana NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Polioptila caerulea NL Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey	Common	Scientific Name	Conservation	Sourco ¹	
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White-breasted Nuthatch Sitta carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Treecreepers Certhiidae NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Brown Creeper Certhia americana NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Gnatcatchers Polioptila caerulea NL Nature Explorer Wrens Troglodytidae NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-A Wildlife Site Characterization Report Winter Wren Troglodytes hiemalis NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Sedge Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Marsh Wren Cistothorus palustris NL Nature Explorer Carolina Wren Iudovicianus NL Nature Explorer Starlings Sturnidae NL Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Mimic Thrushes Mimidae NL Nature Explorer, Appendix 12-C Breeding Bird Survey Brown Thrasher	Nuthatch	Sitta canadensis	NL	• • • • • • • • • • • • • • • • • • • •	
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Characterization Report				Nature Explorer, Appendix 12-A Wildlife Site	
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Blue-gray Gnatcatcher Wrens Troglodytidae House Wren Troglodytes aedon NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-A Wildlife Site Characterization Report Characterization Report Appendix 12-A Wildlife Site Characterization Report Marsh Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Nature Explorer Appendix 12-A Wildlife Site Characterization Report Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird	Gnatcatchers	Polioptilidae		Characterization report	
Gnatcatcher Polioptila caerulea NL Nature Explorer Wrens Troglodytidae Nature Explorer, Appendix 12-A Wildlife Site House Wren Troglodytes aedon NL Characterization Report, Appendix 12-A Wildlife Site Winter Wren Troglodytes hiemalis NL Nature Explorer, Appendix 12-A Wildlife Site Characterization Report Sedge Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Marsh Wren Cistothorus palustris NL Nature Explorer Carolina Wren Thryothorus ludovicianus NL Nature Explorer Starlings Sturnidae Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Mimic Thrushes Mimidae Nature Explorer, Appendix 12-C Breeding Bird Survey Brown Thrasher Toxostoma rufum SGCN - HP Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Northern Northern Nature Explorer, Appendix 12-C Breeding Bird		,			
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Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Winter Wren Troglodytes hiemalis NL Sedge Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Appendix 12-A Wildlife Site Characterization Report Appendix 12-A Wildlife Site Characterization Report Appendix 12-A Wildlife Site Characterization Report Nature Explorer Nature Explorer Nature Explorer Nature Explorer Starlings Sturnidae European Starling Sturnus vulgaris NL Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Mimic Thrushes Mimidae Gray Catbird Dumetella carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey		Troalodytidae			
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Sedge Wren Cistothorus stellaris ST Appendix 12-A Wildlife Site Characterization Report Report Marsh Wren Cistothorus palustris NL Nature Explorer Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Mimic Thrushes Gray Catbird Dumetella carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Northern Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey	Winter Wren			• • • • • • • • • • • • • • • • • • • •	
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European Starling Sturnus vulgaris NL Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey Mimic Thrushes Mimidae Gray Catbird Dumetella carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Northern Nature Explorer, Appendix 12-C Breeding Bird Characterization Report, Appendix 12-C Breeding Bird Nature Explorer, Appendix 12-C Breeding Bird	C. I'			·	
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Gray Catbird Dumetella carolinensis NL Nature Explorer, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird Nature Explorer, Appendix 12-C Breeding Bird	Mimic Thrushes	Mimidae		ing bird Survey	
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Nature Explorer, Appendix 12-A Wildlife Site Brown Thrasher Toxostoma rufum SGCN - HP Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird	Gray Catbird	Dumetella carolinensis	NL		
Brown Thrasher Toxostoma rufum SGCN - HP Characterization Report, Appendix 12-C Breeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird				•	
Northern Streeding Bird Survey Nature Explorer, Appendix 12-C Breeding Bird	Brown Thrasher	Toyostoma rufum	SGCN - UD	• • • •	
Northern Nature Explorer, Appendix 12-C Breeding Bird	Brown Thrasher	i oxostoma rujum	SGCN - HP		
Normerii Mimus polyalottos NII INature Explorer, Appendix 12-C Breeding Bird	Northorn			·	
Maddinghind Millius polygiotios INL		Mimus polyglottos	NL		
Mockingbird Survey	iviockingbira			Survey	

Common	ildlife Species Potentia	Conservation	•
Name	Scientific Name	Status	Source ¹
Thrushes and Allies	<u>Turdidae</u>	<u> </u>	
Eastern Bluebird	Sialia sialis	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey
Veery	Catharus fuscescens	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey
Hermit Thrush	Catharus guttatus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
Wood Thrush	Hylocichla mustelina	NL	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey
American Robin	Turdus migratorius	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey
Waxwings	<u>Bombycillidae</u>		
Bohemian Waxwing	Bombycilla garrulus	NL	Appendix 12-A Wildlife Site Characterization Report
Cedar Waxwing	Bombycilla cedrorum	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey
Old World Sparrows	Passeridae		
House Sparrow	Passer domesticus	NL	Nature Explorer
Finches and Allies	<u>Fringillidae</u>		
Evening Grosbeak	Coccothraustes vespertinus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
House Finch	Haemorhous mexicanus	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey
Purple Finch	Haemorhous purpureus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report
Hoary Redpoll	Acanthis hornemanni	NL	Appendix 12-A Wildlife Site Characterization Report
Red Crossbill	Loxia curvirostra	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report

Common	ildlife Species Potentia	Conservation	in the Study Area
Name	Scientific Name	Status	Source ¹
		Status	Appendix 12 A Wildlife Site Characterization
White-winged Crossbill	Loxia leucoptera	NL	Appendix 12-A Wildlife Site Characterization
Pine Siskin	Cninus ninus	NII	Report
Pine Siskin	Spinus pinus	NL	Nature Explorer
American	Catalan Catalan	NII	Nature Explorer, Appendix 12-A Wildlife Site
Goldfinch	Spinus tristis	NL	Characterization Report, Appendix 12-C
N. 347 L.			Breeding Bird Survey
New World	<u>Passerellidae</u>		
<u>Sparrows</u>			
	Pipilo		Nature Explorer, Appendix 12-A Wildlife Site
Eastern Towhee	erythrophthalmus	NL	Characterization Report, Appendix 12-C
			Breeding Bird Survey
American Tree	Spizella arborea	NL	Appendix 12-B Wintering Grassland Raptor
Sparrow	Spizetta arborea	112	Survey
Chipping	Spizella passerina		Nature Explorer, Appendix 12-A Wildlife Site
Sparrow		NL	Characterization Report, Appendix 12-C
Sparrow			Breeding Bird Survey
	Spizella pusilla	NL	Nature Explorer, Appendix 12-A Wildlife Site
Field Sparrow			Characterization Report, Appendix 12-C
			Breeding Bird Survey
\\.		SSC	Nature Explorer, Appendix 12-A Wildlife Site
Vesper Sparrow	Pooecetes gramineus	SSC	Characterization Report
<u> </u>	D /		Nature Explorer, Appendix 12-A Wildlife Site
Savannah	Passerculus	NL	Characterization Report, Appendix 12-C
Sparrow	sandwichensis		Breeding Bird Survey
Grasshopper	Ammodramus		
Sparrow	savannarum	SSC	Nature Explorer
Henslow's	Ammodramus		
Sparrow	henslowii	ST	Nature Explorer
<u> </u>			Nature Explorer, Appendix 12-A Wildlife Site
			Characterization Report, Appendix 12-B
Song Sparrow	Melospiza melodia	NL	Wintering Grassland Raptor Survey, Appendix
			12-C Breeding Bird Survey
			Nature Explorer, Appendix 12-A Wildlife Site
Swamp Sparrow	Melospiza georgiana	NL	Characterization Report
White-throated			Nature Explorer, Appendix 12-B Wintering
White-throated	Zonotrichia albicollis	NL	
Sparrow			Grassland Raptor Survey

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common Name	Scientific Name	Conservation Status	Source ¹	
Dark-eyed Junco	Junco hyemalis	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey	
<u>Blackbirds</u>	<u>Icteridae</u>			
Bobolink	Dolichonyx oryzivorus	SGCN - HP	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey	
Eastern Meadowlark	Sturnella magna	SGCN - HP	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey	
Orchard Oriole	Icterus spurius	NL	Nature Explorer	
Baltimore Oriole	Icterus galbula	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey	
Red-winged Blackbird	Agelaius phoeniceus	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey	
Brown-headed Cowbird	Molothrus ater	NL	Nature Explorer, Appendix 12-C Breeding Bird Survey	
Rusty Blackbird	Euphagus carolinus	SGCN - HP	IPaC, Appendix 12-A Wildlife Site Characterization Report	
Common Grackle	Quiscalus quiscula	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey	
New World Warblers	<u>Parulidae</u>			
Brewster's Warbler	Vermivora cyanoptera x chrysoptera	NL	Nature Explorer	
Blackpoll Warbler	Dendroica striata	NL	Appendix 12-A Wildlife Site Characterization Report	
Ovenbird	Seiurus aurocapilla	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey	
Worm-eating Warbler	Helmitheros vermivorum	NL	Nature Explorer	

Common	ildlife Species Potentia	Conservation	
Name	Scientific Name	Status	Source ¹
Louisiana		Statas	
Waterthrush	Parkesia motacilla	NL	Nature Explorer
Northern	Parkesia		Nature Explorer, Appendix 12-A Wildlife Site
Waterthrush	noveboracensis	NL	Characterization Report
Golden-winged			Appendix 12-A Wildlife Site Characterization
Warbler	Vermivora chrysoptera	SSC	Report
Blue-winged			Nature Explorer, Appendix 12-A Wildlife Site
Warbler	Vermivora cyanoptera	NL	Characterization Report
Black-and-white			Nature Explorer, Appendix 12-A Wildlife Site
Warbler	Mniotilta varia	NL	Characterization Report
Nashville	O	NII	Natura Francisco
Warbler	Oreothlypis ruficapilla	NL	Nature Explorer
Mourning	Geothlypis	NL	Nature Explorer, Appendix 12-A Wildlife Site
Warbler	philadelphia	INL	Characterization Report
Kentucky	Geothlypis formosa	SGCN - HP	Nature Explorer
Warbler	Geothlypis Jorniosa		Nature Explorer
Common	Geothlypis trichas	NL	Nature Explorer, Appendix 12-C Breeding Bird
Yellowthroat	Geothypis thenas		Survey
Hooded	Setophaga citrina	NL	Nature Explorer, Appendix 12-A Wildlife Site
Warbler	Secophaga ettiara		Characterization Report
American		NL	Nature Explorer, Appendix 12-A Wildlife Site
Redstart	Setophaga ruticilla		Characterization Report, Appendix 12-C
			Breeding Bird Survey
Cerulean	Setophaga cerulea	SSC	Nature Explorer, Appendix 12-A Wildlife Site
Warbler	, 3		Characterization Report
Northern Parula	Setophaga americana	NL	Nature Explorer
Magnolia	Setophaga magnolia	NL	Nature Explorer, Appendix 12-A Wildlife Site
Warbler	. 3		Characterization Report
Blackburnian	Setophaga fusca	NL	Nature Explorer, Appendix 12-A Wildlife Site
Warbler			Characterization Report
Yellow Warbler	Catalla	NII	Nature Explorer, Appendix 12-A Wildlife Site
	Setophaga petechia	NL	Characterization Report, Appendix 12-C
			Breeding Bird Survey
Chestnut-sided	Setophaga	NII	Nature Explorer, Appendix 12-A Wildlife Site
Warbler	pensylvanica	NL	Characterization Report, Appendix 12-C
_			Breeding Bird Survey

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common Name	Scientific Name	Conservation Status	Source ¹	
Black-throated Blue Warbler	Setophaga caerulescens	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report	
Pine Warbler	Setophaga pinus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report	
Yellow-rumped Warbler	Setophaga coronata	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report	
Prairie Warbler	Setophaga discolor	NL	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report	
Canada Warbler	Cardellina canadensis	SGCN - HP	Nature Explorer, IPaC, Appendix 12-A Wildlife Site Characterization Report	
Cardinals and Allies	<u>Cardinalidae</u>			
Scarlet Tanager	Piranga olivacea	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey	
Northern Cardinal	Cardinalis	NL	Nature Explorer, Appendix 12-B Wintering Grassland Raptor Survey, Appendix 12-C Breeding Bird Survey	
Rose-breasted Grosbeak	Pheucticus ludovicianus	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey	
Indigo Bunting	Passerina cyanea	NL	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report, Appendix 12-C Breeding Bird Survey	
Mammals				
<u>Bats</u>				
Silver-haired Bat	Lasionycteris noctivagans	NL	Nature Explorer	
Northern Long- eared Bat	Myotis septentrionalis	ST	Nature Explorer, Appendix 12-A Wildlife Site Characterization Report	
Indiana Bat	Myotis sodalis	SE	Appendix 12-A Wildlife Site Characterization Report	
Tri-colored Bat	Perimyotis subflavus	NL	Nature Explorer	
Little Brown Bat	Myotis lucifugus	NL	NYSDEC Wildlife Diversity Group, IUCN	

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	October 1 turne	Status	558760	
Eastern small-	Myotis leibii	SSC	ANGERG WILLIES BY A STATE OF THE STATE OF TH	
footed Myotis	, iyotto tetott		NYSDEC Wildlife Diversity Group, IUCN	
Eastern				
Pipistrelle	Pipistrellus subflavus	NL	NYSDEC Wildlife Diversity Group, IUCN	
ripistrelle			TVISSEE Whalle Siversity Group, recit	
Big Brown Bat	Eptesicus fuscus	NL	NYSDEC Wildlife Diversity Group, IUCN	
			TV13DEC Whalle Diversity Group, rock	
Eastern Red Bat	Lasiurus borealis	NL	NYSDEC Wildlife Diversity Group, IUCN	
Hoary Bat	Lasiurus cinereus	NL		
Tiodiy Dat	Eastaras Ciricicas	1 V L	NYSDEC Wildlife Diversity Group, IUCN	
Marsupials				
Virginia	Didelphis virginiana	NL	NYSDEC Wildlife Diversity Group, IUCN	
Opossum	Dideiphis virginiana	INL	1413DLC Wilding Diversity Group, roch	
Shrews and Mole	<u>s</u>			
Cinereus Shrew	Sorex cinereus	NL	NYSDEC Wildlife Diversity Group, IUCN	
American Water	Sorex palustris	NL	NYSDEC Wildlife Diversity Group, IUCN	
Shrew	•			
Smoky Shrew	Sorex fumeus	NL	NYSDEC Wildlife Diversity Group, IUCN	
American	Sorex hoyi	NL	NYSDEC Wildlife Diversity Group, IUCN	
Pygmy Shrew	,			
Northern Short-	Blarina brevicaudali	NL	NYSDEC Wildlife Diversity Group, IUCN,	
tailed Shrew			iNaturalist	
Hairy-tailed	Parascalops breweri	NL	NYSDEC Wildlife Diversity Group, IUCN	
Mole Star-nosed			NYSDEC Wildlife Diversity Group, IUCN,	
Mole Mole	Condylura cristata	NL	iNaturalist	
<u>Canids</u>			in vaccinalist	
Coyote	Canis latrans	NL	NYSDEC Wildlife Diversity Group, IUCN	
	Carro tationio		NYSDEC Wildlife Diversity Group, IUCN,	
Red Fox	Vulpes	NL	iNaturalist	
	Urocyon		NYSDEC Wildlife Diversity Group, IUCN,	
Gray Fox	cinereoargenteus	NL	iNaturalist	
<u>Bear</u>	. 9:			
American Black			NYSDEC Wildlife Diversity Group, IUCN,	
Bear	Ursus americanus	NL	iNaturalist	

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name		Status		
<u>Skunk</u>				
Striped Skunk	Mephitis	NL	NYSDEC Wildlife Diversity Group, IUCN	
Raccoon				
Dassaan	Dragues later	NII	NYSDEC Wildlife Diversity Group, IUCN,	
Raccoon	Procyon lotor	NL	iNaturalist	
<u>Mustelids</u>				
Fiele eu	Delsania nennanti	NII	NYSDEC Wildlife Diversity Group, IUCN,	
Fisher	Pekania pennanti	NL	iNaturalist	
Ermine	Mustela erminea	NL	NYSDEC Wildlife Diversity Group, IUCN	
Long-tailed	M . 1 . 5		ANYONE CANTALLY DE LA COMPANIONE	
Weasel	Mustela frenata	NL	NYSDEC Wildlife Diversity Group, IUCN	
			NYSDEC Wildlife Diversity Group, IUCN,	
American Mink	Neovison vison	NL	iNaturalist	
North American			NYSDEC Wildlife Diversity Group, IUCN,	
River Otter	Lontra canadensis	NL	iNaturalist	
<u>Ungulates</u>				
White-tailed		NL	NYSDEC Wildlife Diversity Group, IUCN,	
Deer	Odocoileus virginianus		iNaturalist	
Moose	Alces americanus	NL	NYSDEC Wildlife Diversity Group, IUCN	
Rodents				
Eastern		NL	NYSDEC Wildlife Diversity Group, IUCN,	
Chipmunk	Tamias striatus		iNaturalist	
<u> </u>		NL	NYSDEC Wildlife Diversity Group, IUCN,	
Woodchuck	Marmota monax		iNaturalist	
Eastern Grey			NYSDEC Wildlife Diversity Group, IUCN,	
Squirrel	Sciurus carolinensis	NL	iNaturalist	
<u> </u>	Tamiasciurus		NYSDEC Wildlife Diversity Group, IUCN,	
Red Squirrel	hudsonicus	NL	iNaturalist	
Southern Flying				
Squirrel	Glacomys volans	NL	NYSDEC Wildlife Diversity Group, IUCN	
Northern Flying				
Squirrel	Flaucomys sabrinus	NL	NYSDEC Wildlife Diversity Group, IUCN	
American				
Beaver	Castor canadensis	NL	NYSDEC Wildlife Diversity Group, IUCN	
North American	Peromyscus			
Deermouse	maniculatus	NL	NYSDEC Wildlife Diversity Group, IUCN	
20011110030	a.neatata3			

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Hame	Status	Source	
White-footed	Peromyscus leucopus	NL	NYSDEC Wildlife Diversity Group, IUCN	
Deermouse	rerornyscus teucopus	INL	NYSDEC Wildlife Diversity Group, rock	
Southern Red-	Myodos gannori	NL	NVSDEC Wildlife Diversity Croup, ILICN	
backed Vole	Myodes gapperi	INL	NYSDEC Wildlife Diversity Group, IUCN	
Meadow Vole	Microtus	NL	NYSDEC Wildlife Diversity Group, IUCN	
	pennsylvanicus	INL	NYSDEC Wildlife Diversity Group, rock	
Woodland Vole	Microtus pinetorum	NL	NYSDEC Wildlife Diversity Group, IUCN	
Common	On datus -ib atbians	NII	NYSDEC Wildlife Diversity Group, IUCN,	
Muskrat	Ondatra zibethicus	NL	iNaturalist	
Southern Bog	Cum antonous sassassi	NII	NIVEDEC Wildlife Diversity Crown HICN	
Lemming	Synaptomys cooperi	NL	NYSDEC Wildlife Diversity Group, IUCN	
House Mouse	Mus musculus	NL	NYSDEC Wildlife Diversity Group, IUCN	
Meadow	Zanus hudsanius	NII	ANCORCANILITY DI LATI CALLINGNI	
Jumping Mouse	Zapus hudsonius	NL	NYSDEC Wildlife Diversity Group, IUCN	
Woodland	Nanaonary insignis	NII	NIVEDEC Wildlife Diversity Consum HICAI	
Jumping Mouse	Napaeozapus insignis	NL	NYSDEC Wildlife Diversity Group, IUCN	
North American	Frathing days at a	NL	NYSDEC Wildlife Diversity Group, IUCN,	
Porcupine	Erethizon dorsata		iNaturalist	
Rabbits and Hare	<u>!S</u>			
Eastern	Culuita au a flanidana	NL	NYSDEC Wildlife Diversity Group, IUCN,	
Cottontail	Sylvilagus floridanus		iNaturalist	
Snowshoe Hare	Lepus americanus	NL	NYSDEC Wildlife Diversity Group, IUCN	
Reptiles and Am	phibians			
<u>Snakes</u>				
Ring-necked	Diadonhia susatatus	NII	Natura Evalarar	
Snake	Diadophis punctatus	NL	Nature Explorer	
Mills Chalsa	Lampropeltis	NII	Natura Evalarar	
Milk Snake	triangulum	NL	Nature Explorer	
Northern Water	Nico Paris I	NII	Not as Facilities	
Snake	Nerodia sipedon	NL	Nature Explorer	
Smooth Green		NII	N. F. I	
Snake	Opheodrys vernalis	NL	Nature Explorer	
Dekay's Brown	<i>C</i> : 1.1.:	N.II	N. F. I	
Snake	Storeria dekayi	NL	Nature Explorer	

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific ivallie	Status	Source	
Red-bellied	Storeria	NII	Natura Finalanan	
Snake	occipitomaculata	NL	Nature Explorer	
Common Garter	•			
Snake	Thamnophis sirtalis	NL	Nature Explorer	
<u>Turtles</u>				
Snapping Turtle	Chelydra serpentina	NL	Nature Explorer	
Painted Turtle	Chrysemys picta	NL	Nature Explorer	
Wood Turtle	Glyptemys insculpta	SSC	Nature Explorer	
Blanding's		CT	Appendix 12-A Wildlife Site Characterization	
Turtle	Emydoidea blandingii	ST	Report	
Frogs and Toads				
American Toad	Anaxyrus americanus	NL	Nature Explorer	
Gray Treefrog	Hyla versicolor	NL	Nature Explorer	
Bullfrog	Lithobates	NL	Nature Explorer	
	catesbeianus		<u> </u>	
Green Frog	Lithobates clamitans	NL	Nature Explorer	
Pickerel Frog	Lithobates palustris	NL	Nature Explorer	
Northern	Lithobates pipiens	NL	Nature Explorer	
Leopard Frog	Ettilobates pipieris	INL	ivatare Explorer	
Wood Frog	Lithobates sylvaticus	NL	Nature Explorer	
Spring Peeper	Pseudacris crucifer	NL	Nature Explorer	
Western Chorus	Pseudacris triceriata	NL	NYSDEC Wildlife Diversity Group,	
Frog	ר שמעענונג נוונפונענע	INL	113DLC Wilding Diversity Group,	
-				
Mink Frog	Lithobates	NL	NYSDEC Wildlife Diversity Group,	
3	serpentrionalis		, , ,	
Salamanders				
Jefferson	Ambystoma			
Salamander	jeffersonianum	SSC	Nature Explorer	
Jefferson	Ambystoma			
Salamander	jeffersonianum x	SSC	Nature Explorer	
Complex	laterale	330	Tutal C Explorer	
Spotted	Ambystoma			
Salamander	maculatum	NL	Nature Explorer	
Jaiamanuei	mucututum			

Table 11.B-1 Wildlife Species Potentially Present within the Study Area					
Common	Scientific Name	Conservation	Source ¹		
Name	- Continue i tallic	Status	554100		
Dusky	Desmognathus fuscus	NL	Nature Explorer		
Salamander	Desiriogriatrias fascas	INL	Nature Explorer		
Allegheny					
Mountain	Desmognathus	NL	Nature Explorer		
Dusky	ochrophaeus	INL	Nature Explorer		
Salamander					
Northern Two-					
lined	Eurycea bislineata	NL	Nature Explorer		
Salamander					
Spring	Gyrinophilus	NII	Natura Funlares		
Salamander	porphyriticus	NL	Nature Explorer		
Francis N	Notophthalmus	NII	Not as Facilities		
Eastern Newt	viridescens	NL	Nature Explorer		
Redback	DI (I) :	NII	N. F. I		
Salamander	Plethodon cinereus	NL	Nature Explorer		
Northern Slimy					
Salamander	Plethodon glutinosus	NL	Nature Explorer		
Common			10/05 FG 14/1 H/C B1 1/1 G		
Mudpuppy	Necturus maculosus	NL	NYSDEC Wildlife Diversity Group,		
Fish					
Comely Shiner	Notropis amoenus	SGCN - HP	Nature Explorer		
Bridle Shiner	Notropis bifrenatus	NL	Nature Explorer		
Blackchin Shiner	Notropis heterodon	SGCN - HP	Nature Explorer		
Blacknose	Notronia hataralania	NII	Natura Evoloror		
Shiner	Notropis heterolepis	NL	Nature Explorer		
Swallowtail	NI-1	CCCNL LIB	Not as Facilities		
Shiner	Notropis procne	SGCN - HP	Nature Explorer		
Mussels and Clams					
Brook Floater	Alasmidonta varicosa	ST	Nature Explorer		
Yellow	, .,.	66611 1:-	·		
Lampmussel	Lampsilis cariosa	SGCN - HP	Nature Explorer, NYNHP		
Green Floater	Lasmigona subviridis	ST	Nature Explorer		
Eastern	Margaritifera		•		
Pearlshell	margaritifera	SGCN - HP	Nature Explorer		
	9				

	'ildlife Species Potential		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Invertebrates			
Alderflies, Dobso	nflies, and Fishflies		
Summer Fishfly	Chauliodes pectinicornis	NL	iNaturalist
Spring Fishfly	Chauliodes rastricornis	NL	iNaturalist
Beetles			
Sweet Click Beetle	Aeolus mellillus	NL	iNaturalist
	Agrilus cyanescens	NL	iNaturalist
Eastern Eyed Click Beetle	Alaus oculatus	NL	iNaturalist
	Analeptura lineola	NL	iNaturalist
Dandelion Anthaxia Beetle	Anthaxia inornata	NL	iNaturalist
Eurasian Red- and-black Melyrid	Anthocomus equestris	NL	iNaturalist
	Anthrenus fuscus	NL	iNaturalist
Common Carpet Beetle	Anthrenus scrophulariae	NL	iNaturalist
Two-lined Leatherwing	Atalantycha bilineata	NL	iNaturalist
	Atalantycha neglecta	NL	iNaturalist
	Bellamira scalaris	NL	iNaturalist
Sumac Flea Beetle	Blepharida rhois	NL	iNaturalist
	Calleida punctata	NL	iNaturalist
Russet Alder Leaf Beetle	Calligrapha alni	NL	iNaturalist
	Cantharis livida	NL	iNaturalist
Thistle Tortoise Beetle	Cassida rubiginosa	NL	iNaturalist
Red-rot Decay Stag Beetle	Ceruchus piceus	NL	iNaturalist
Small Orange Tortoise Beetle	Charidotella purpurata	NL	iNaturalist

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	Source
Golden Tortoise	Charidotella	NL	iNaturalist
Beetle	sexpunctata	INL	iivaturanst
Goldenrod	Chauliognathus	NL	iNaturalist
Soldier Beetle	pensylvanicus	INL	inaturanst
Dogbane Leaf	Clara ca ala ca accurato ca	NII	iNlaturalist
Beetle	Chrysochus auratus	NL	iNaturalist
Twelve-spotted	Cicindela	NII	INI_stII_st
Tiger Beetle	duodecimguttata	NL	iNaturalist
Big Sand Tiger			The second secon
Beetle	Cicindela formosa	NL	iNaturalist
Eastern Sand	Cicindela formosa	N.II	This is a line of the second o
Tiger Beetle	generosa	NL	iNaturalist
Punctured Tiger		N.II	
Beetle	Cicindela punctulata	NL	iNaturalist
Purple Tiger			
Beetle	Cicindela purpurea	NL	iNaturalist
Bronzed Tiger		NL	
Beetle	Cicindela repanda		iNaturalist
Festive Tiger			
Beetle	Cicindela scutellaris	NL	iNaturalist
LeConte's Tiger	Cicindela scutellaris		
Beetle	lecontei	NL	iNaturalist
Six-spotted	tecontect		
Tiger Beetle	Cicindela sexguttata	NL	iNaturalist
Seven-spotted	Coccinella		
Lady Beetle	septempunctata	NL	iNaturalist
Three-banded	Septempanetata		
Lady Beetle	Coccinella trifasciata	SGCN-HP	iNaturalist
Spotted Pink	Coleomegilla		
Lady Beetle	maculata	NL	iNaturalist
	mucututu		
Long-necked	Colliuris pensylvanica	NL	iNaturalist
Ground Beetle	Camula fuit-	NII	IN late wall at
Control	Copris fricator	NL	iNaturalist
Spotted	Crioceris	NII	INI-da and Bod
Asparagus	duodecimpunctata	NL	iNaturalist
Beetle			

	Idlife Species Potential		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
ant-like	Cyrtophorus	NL	iNaturalist
longhorn beetle	verrucosus		
Larder Beetle	Dermestes lardarius	NL	iNaturalist
Eastern	Desmocerus palliatus	NL	iNaturalist
Elderberry Borer			
Spotted	Diabrotica		
Cucumber	undecimpunctata	NL	iNaturalist
Beetle			
Flat-headed			
Hardwood	Dicerca divaricata	NL	iNaturalist
Borer			
	Dircaea liturata	NL	iNaturalist
Antelope Beetle	Dorcus parallelus	NL	iNaturalist
Ghost Tiger	Ellipsoptera lepida	NL	iNaturalist
Beetle		112	nvacaranse
Winter Firefly	Ellychnia corrusca	NL	iNaturalist
Oriental Beetle	Exomala orientalis	NL	iNaturalist
Banded	Graphisurus fasciatus	NL	iNaturalist
Graphisurus	Grapinisaras jasetatas		nvacaranse
Asian Lady	Harmonia axyridis	NL	iNaturalist
Beetle	Trainionia axyriais		nvacaransc
Clavate Tortoise	Helocassis clavata	NL	iNaturalist
Beetle	Ticlocussis clavata	116	nvacaransc
Parenthesis	Hippodamia	NL	iNaturalist
Lady Beetle	parenthesis	IVE	invaturanst
Variegated Lady	Hippodamia variegata	NL	iNaturalist
Beetle	Trippodarnia variegata	110	nvacaransc
Sigil Lady	Hyperaspis	NL	iNaturalist
Beetles	Ттурстазріз	116	nvacaransc
	Kuschelina thoracica	NL	iNaturalist
Swamp			
Milkweed Leaf	Labidomera clivicollis	NL	iNaturalist
Beetle			
Blunt Knapweed	Larinus obtusus	NL	iNaturalist
Flower Weevil	Lararas Obiasas		n tatalanst

	ildlife Species Potential		iii tile Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Three-lined	Lema daturaphila	NL	iNaturalist
Potato Beetle			
Colorado	Leptinotarsa	NL	iNaturalist
Potato Beetle	decemlineata	142	nvacaranse
Lily Leaf Beetle	Lilioceris lilii	NL	iNaturalist
American Rose	Macrodactylus	NL	iNaturalist
Chafer	subspinosus	INL	iivaturalist
Red-banded	Megalodacne fasciata	NL	iNaturalist
Fungus Beetle	Pregatodache jasetata	IVL	invacuranse
	Microgoes oculatus	NL	iNaturalist
Goldenrod Leaf	Microrhopala vittata	NL	iNaturalist
Miner Beetle	Mcromopala villata	IVL	inaturalist
	Molorchus	NL	iNaturalist
	bimaculatus	INL	iivaturalist
Northeastern			
Pine Sawyer	Monochamus notatus	NL	iNaturalist
Beetle			
White-spotted	Monochamus	NL	iNaturalist
Sawyer Beetle	scutellatus	INL	inaturalist
American	Nasranhila amaricana	NII	:Noturalist
Carrion Beetle	Necrophila americana	NL	iNaturalist
Pustulated	Nicrophorus	NII	:Nist malist
Carrion Beetle	pustulatus	NL	iNaturalist
	Odontocorynus	NII	:Notyralist
	umbellae	NL	iNaturalist
Hermit Flower	0	NII	2NL con Proc
Beetle	Osmoderma eremicola	NL	iNaturalist
Rough Hermit	0	NII	2NL con Proc
Beetle	Osmoderma scabra	NL	iNaturalist
Black Vine	00.1	NII	The second secon
Weevil	Otiorhynchus sulcatus	NL	iNaturalist
	Oxyporus rufipennis	NL	iNaturalist
Grapevine		NII	(Nietowaliet
Beetle	Pelidnota punctata	NL	iNaturalist

	ildlife Species Potential		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Common	Photinus pyralis	NL	iNaturalist
Eastern Firefly			
Willow Leaf	Plagiodera versicolora	NL	iNaturalist
Beetle	- ragioacia versicolora	142	
Woodland	Poecilus lucublandus	NL	iNaturalist
Ground Beetle	r oecilas lacabiandas	IVL	inaturanst
Green			
Immigrant Leaf	Polydrusus formosus	NL	iNaturalist
Weevil			
Japanese Beetle	Popillia japonica	NL	iNaturalist
Fourteen-	Duanda		
spotted Lady	Propylea	NL	iNaturalist
Beetle	quatuordecimpunctata		
	Pseudanostirus		
	hieroglyphicus	NL	iNaturalist
Ribbed Pine		NL	251
Borer	Rhagium inquisitor		iNaturalist
Common Red	51 1 61		
Soldier Beetle	Rhagonycha fulva	NL	iNaturalist
	Scaphinotus viduus	NL	iNaturalist
Big-headed	Capritas subtamasasus	NII	:Net maliet
Ground Beetle	Scarites subterraneus	NL	iNaturalist
Strangalepta			
Flower	Strangalepta	NII	iNaturalist
Longhorn	abbreviata	NL	inaturalist
Beetle			
	Synchroa punctata	NL	iNaturalist
Red Milkweed	Tetraopes	NII	Man maller
Beetle	tetrophthalmus	NL	iNaturalist
Goldenrod Leaf	•	N.I.	
Beetle	Trirhabda canadensis	NL	iNaturalist
Banded			
Longhorn	Typocerus velutinus	NL	iNaturalist
Beetle	., poeci do retatindo		

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Jeientine Hame	Status	Source	
Butterflies and M	oths			
Water Veneer	Acentria ephemerella	NL	iNaturalist	
Distinct Quaker	Achatia distincta	NL	iNaturalist	
Garden				
Webworm	Achyra rantalis	NL	iNaturalist	
Moth				
Snowy-				
shouldered	Acleris nivisellana	NL	iNaturalist	
Acleris Moth				
Walnut Shoot	Acrobasis demotella	NL	iNaturalist	
Moth	Acrobasis demotetta	INL	inaturalist	
Dark	Acrolophus mora	NL	iNaturalist	
Acrolophus	Acrolophas mora	IVL	INACUIAIISC	
American	Acronicta americana	NL	iNaturalist	
Dagger	Acrometa americana	112		
Clear Dagger	Acronicta clarescens	NL	iNaturalist	
Large Gray	Acronicta insita	NL	iNaturalist	
Dagger				
Marsh Dagger	Acronicta insularis	NL	iNaturalist	
Hesitant Dagger	Acronicta modica	NL	iNaturalist	
North American	Actias luna	NL	iNaturalist	
Luna Moth				
Juniper Conch	Aethes rutilana	NL	iNaturalist	
Large Tabby	Aglossa pinguinalis	NL	iNaturalist	
Unspotted	Allagrapha aerea	NL	iNaturalist	
Looper Moth	ag. apria del ed			
Common				
Roadside-	Amblyscirtes vialis	NL	iNaturalist	
Skipper				
Walnut Sphinx	Amorpha juglandis	NL	iNaturalist	
American	Amphipyra			
Copper	pyramidoides	NL	iNaturalist	
Underwing	F.J			
Yellow-spotted	Anageshna			
Webworm	primordialis	NL	iNaturalist	
Moth				

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Jerentine Hame	Status	- Starte	
White-spotted	Anania funebris	NL	iNaturalist	
Sable	·			
Guenee's Pearl	Anania tertialis	NL	iNaturalist	
Common Gray	Anavitrinella pampinaria	NL	iNaturalist	
Least Skipper	Ancyloxypha numitor	NL	iNaturalist	
Schlaeger's	Antaeotricha	NL	iNaturalist	
Fruitworm Moth	schlaegeri	INL	inaturalist	
Polyphemus	Antheraea	NL	iNaturalist	
Moth	polyphemus	INL	inaturalist	
Anna Tiger	Apantesis anna	NL	iNaturalist	
Moth	Apantesis anna	INL	nvataranst	
Virgin Tiger	Apantesis virgo	NL	iNaturalist	
Moth	Apantesis virgo	112	invacurumst	
Checkered				
Apogeshna	Apogeshna stenialis	NL	iNaturalist	
Moth				
Infant Moth	Archiearis infans	NL	iNaturalist	
Ugly-nest	Archips cerasivorana	NL	iNaturalist	
Caterpillar Moth	Aremps cerusivoruna	146	invacurumst	
Short-lined	Argyrostrotis anilis	NL	iNaturalist	
Chocolate	- Tirgyrostrotts aritits	112		
White-spotted	Argyrotaenia	NL	iNaturalist	
Leafroller Moth	alisellana	. 4 L	n vacaranse	
Gray-banded	Argyrotaenia mariana	NL	iNaturalist	
Leafroller Moth	Argyrotaenta martana	INL	iivaturalist	
Yellow-winged	Argyrotaenia			
Oak Leafroller	quercifoliana	NL	iNaturalist	
Moth				
lo Moth	Automeris io	NL	iNaturalist	
Eyed Baileya	Baileya ophthalmica	NL	iNaturalist	
Moth	Бинеуи ортинантка	INL	iivaturalist	
Three-lined	Balsa tristrigella	NL	iNaturalist	
Balsa Moth	bulsu tristityettu	INL	iivaturalist	

	ildlife Species Potential		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Bog			
Bibarrambla	Bibarrambla allenella	NL	iNaturalist
Moth			
Hollow-spotted	Blepharomastix		
Blepharomastix	ranalis	NL	iNaturalist
Moth			
Meadow	Boloria bellona	NL	iNaturalist
Fritillary	Dotorta Dettorra		n tataranst
Forage Looper	Caenurgina erechtea	NL	iNaturalist
Moth		116	invacurumst.
Brown	Calledapteryx	NL	iNaturalist
Scoopwing	dryopterata	IVL	inaturanst
Juniper	Callophrys gryneus	NL	iNaturalist
Hairstreak	Callophrys gryneas	INL	inaturalist
Eastern Pine	Callophrys niphon	NL	iNaturalist
Elfin	Санорттуз тірпоп	INL	inaturalist
Hoary Elfin	Callophrys polios	NL	iNaturalist
Promethea	Callosamia promothoa	NL	iNaturalist
Silkmoth	Callosamia promethea	INL	inaturalist
Poison Ivy Leaf-	Cameraria	NL	iNaturalist
miner Moth	guttifinitella	INL	inaturalist
Pale Beauty	Campaea perlata	NL	iNaturalist
Maple Trumpet			
Skeletonizer	Catastega aceriella	NL	iNaturalist
Moth			
Northern Azure	Celastrina lucia	NL	iNaturalist
Maple-			
Basswood	Cenopis pettitana	NL	iNaturalist
Leafroller Moth			
Waved Sphinx	Ceratomia undulosa	NL	iNaturalist
Common	Canavania v = = = l =	NII	:Nint. malint
Wood-Nymph	Cercyonis pegala	NL	iNaturalist
Laugher Moth	Charadra deridens	NL	iNaturalist
Blackberry	Chlorochlamys	NII	:Nist malist
Looper Moth	chloroleucaria	NL	iNaturalist
•			

	ildlife Species Potential	Conservation	in the Study Area
Common	Scientific Name		Source ¹
Name		Status	
Harris's	Chlosyne harrisii	NL	iNaturalist
Checkerspot			
Spruce	Choristoneura	NL	iNaturalist
Budworm Moth	fumiferana		
Oblique-	Choristoneura		
banded	rosaceana	NL	iNaturalist
Leafroller Moth			
Topiary Grass-	Chrysoteuchia	NL	iNaturalist
veneer	topiarius		
Morbid Owlet	Chytolita morbidalis	NL	iNaturalist
Yellow-collared	Cisseps fulvicollis	NL	iNaturalist
Scape Moth	Сіззерз үшілеошіз	146	invaturanst
Black-patched	Clepsis melaleucanus	NL	iNaturalist
Clepsis Moth	Clepsis metaleacanas	INL	inaturalist
White Triangle	Clepsis persicana	NII	iNaturalist
Tortrix	Ciepsis persicunu	NL	inaturalist
Common	Coenonympha	NL	iNaturalist
Ringlet	california	INL	inaturalist
Clouded	Colias philodica	NL	iNaturalist
Sulphur	Colias philodice	INL	inaturalist
Close-banded	Colocasia		
Yellowhorn		NL	iNaturalist
Moth	propinquilinea		
Dusky	Condica vecors	NL	iNaturalist
Groundling	Condica vecors	INL	inaturalist
Grass-veneers	Crambinae	NII	iNaturalist
and Allies	Crambinae	NL	iNaturalist
Double-banded	Chambur a = !t = t = !!	NII	:Nint
Grass-veneer	Crambus agitatellus	NL	iNaturalist
Virginia	Character 1 1 1	NII	Philade and Park
Ctenucha Moth	Ctenucha virginica	NL	iNaturalist
Brown-hooded	<i>C</i> ": : :	N.II	The second secon
Owlet	Cucullia convexipennis	NL	iNaturalist
Eastern Tailed-	6 11	N.I.	
Blue	Cupido comyntas	NL	iNaturalist
			

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name	Scientific Hame	Status	Source
Sweetfern	Cyclophora	NL	iNaturalist
Geometer Moth	pendulinaria	INL	iivaturalist
Hickory			
Shuckworm	Cydia caryana	NL	iNaturalist
Moth			
Filbertworm	Cudia latiforna ana	NII	:Net wellet
Moth	Cydia latiferreana	NL	iNaturalist
Monarch	Danaus plexippus	NL	iNaturalist
Angus' Datana			The second second
Moth	Datana angusii	NL	iNaturalist
Yellow-necked			
Caterpillar Moth	Datana ministra	NL	iNaturalist
Lettered Sphinx	Deidamia inscriptum	NL	iNaturalist
•	Desmia	NL	iNaturalist
White-spotted			
Brown	Diastictis ventralis	NL	iNaturalist
Spotted			
Dichomeris	Dichomeris	NL	iNaturalist
Moth	punctidiscellus		
Rosy Maple			
Moth	Dryocampa rubicunda	NL	iNaturalist
Bad-wing Moth	Dyspteris abortivaria	NL	iNaturalist
Orange-barred			
Carpet Moth	Dysstroma hersiliata	NL	iNaturalist
Imperial Moth	Eacles imperialis	NL	iNaturalist
Pine Imperial	,		
Moth	Eacles imperialis pini	NL	iNaturalist
Locust Twig	Ecdytolopha		
Borer Moth	insiticiana	NL	iNaturalist
Three-spotted			
Concealer	Eido trimaculella	NL	iNaturalist
Pondside			
Crambid Moth	Elophila icciusalis	NL	iNaturalist
Maple			
Spanworm	Ennomos magnaria	NL	iNaturalist
Moth	Limornos magnara	114	nataranst

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Elm Spanworm	Ennomos subsignaria	NL	iNaturalist
Moth	Limomos sabsignaria	146	Indicatorist
Dreamy	Erynnis icelus	NL	iNaturalist
Duskywing	Eryiinis iceius	INL	inaturalist
Juvenal's	Erynnis juvenalis	NL	iNaturalist
Duskywing	Eryiinis juvenuus	INL	INdturdist
Columbine	Emmania locallica	NII	'NI-tol'et
Duskywing	Erynnis lucilius	NL	iNaturalist
Beggar Moth	Eubaphe mendica	NL	iNaturalist
Milkweed	First sates and	NII	:NI-tli-t
Tussock Moth	Euchaetes egle	NL	iNaturalist
Least-marked	Fuel leane l'acción	NII	INI-A
Euchlaena Moth	Euchlaena irraria	NL	iNaturalist
	Euchlaena muzaria	NL	iNaturalist
Olympia Marble	Euchloe olympia	SC	iNaturalist
Scalloped	• •		
Sallow	Eucirroedia pampina	NL	iNaturalist
Spiny Oak-slug			
Moth	Euclea delphinii	NL	iNaturalist
White Pine			
Coneborer	Eucopina tocullionana	NL	iNaturalist
Moth	,		
Beautiful			
Wood-nymph	Eudryas grata	NL	iNaturalist
Pearly Wood-	- ·		The second second
nymph	Eudryas unio	NL	iNaturalist
Powdered			
Geometer	Eufidonia	NL	iNaturalist
Moths	•		
Powder Moth	Eufidonia notataria	NL	iNaturalist
Pandorus			
Sphinx	Eumorpha pandorus	NL	iNaturalist
Dun Skipper	Euphyes vestris	NL	iNaturalist
American	, ,		
Sharp-angled	Euphyia intermediata	NL	iNaturalist
Carpet	- p-1-y-12-11-13-11-13-11-13-13-13-13-13-13-13-13-		

	ildlife Species Potentia		In the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Small Pine	Eupithecia palpata	NL	iNaturalist
Looper Moth			in tatal and t
Curved-toothed	Eutrapela clemataria	NL	iNaturalist
Geometer Moth	Latrapeta eterriataria	142	Tractar and t
Purple-backed			
Cabbageworm	Evergestis pallidata	NL	iNaturalist
Moth			
Harvester	Feniseca tarquinius	NL	iNaturalist
Boxwood	Galasa nigrinodis	NL	iNaturalist
Leaftier Moth	Odlasa Highinodis	INL	Inaturalist
Yarrow Plume	Gillmeria pallidactyla	NL	iNaturalist
Moth	Эштена рашайстую	INL	inaturanst
	Glaucolepis	NL	iNaturalist
	saccharella	INL	inaturanst
Silvery Blue	Glaucopsyche	NL	iNaturalist
Slivery blue	lygdamus		inaturalist
Chickweed	Mannatonic avatavia	NII	iNoturalist
Geometer Moth	Haematopis grataria	NL	iNaturalist
Banded Tussock	Halveidota tossollaris	NL	iNoturalist
Moth	Halysidota tessellaris	INL	iNaturalist
Clymene Moth	Haploa clymene	NL	iNaturalist
Grapeleaf			
Skeletonizer	Harrisina americana	NL	iNaturalist
Moth			
Common	Holiomata sustadata	NII	iNaturalist
Spring Moth	Heliomata cycladata	NL	iNaturalist
Black-marked	Halling in the Control	NII	INI-da
Plume Moth	Hellinsia inquinatus	NL	iNaturalist
Snowberry		NII	"Nice of Post
Clearwing	Hemaris diffinis	NL	iNaturalist
Hummingbird	Here 2 de l	NII	"Nice of Park
Clearwing	Hemaris thysbe	NL	iNaturalist
Indian Skipper	Hesperia sassacus	NL	iNaturalist
Three-spotted	Heterophleps		
Fillip	triguttaria	NL	iNaturalist
	<u>J</u>		

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Pistachio -	Hethemia pistasciaria	NL	iNaturalist
Emerald	,		
Brown Bark	Horisme intestinata	NL	iNaturalist
Carpet Moth			
Cecropia Moth	Hyalophora cecropia	NL	iNaturalist
Unadorned	Hydrelia inornata	NL	iNaturalist
Carpet Moth			
Bedstraw	Hyles gallii	NL	iNaturalist
Hawkmoth			ii va caranse
Pine			
Measuringworm	Hypagyrtis piniata	NL	iNaturalist
Moth			
One-spotted	Hypagyrtis	NL	iNaturalist
Variant	unipunctata	INL	inaturalist
Baltimore Snout	Hypena baltimoralis	NL	iNaturalist
Giant Leopard	Hypersompo scribonia	NL	iNaturalist
Moth	Hypercompe scribonia	INL	inaturalist
Fall Webworm	I hunhantria aunoa	NII	iNoturalist
Moth	Hyphantria cunea	NL	iNaturalist
Painted Lichen	Ilymanyania fusasa	NII	iNoturalist
Moth	Hypoprepia fucosa	NL	iNaturalist
Yellow-fringed			
Dolichomia	Hypsopygia olinalis	NL	iNaturalist
Moth			
Single-dotted	Idana dimidists	NII	iNote realist
Wave	Idaea dimidiata	NL	iNaturalist
Common Idia	Idia assessiti	NII	INI-da
Moth	Idia aemula	NL	iNaturalist
Bent-line Gray	Iridopsis larvaria	NL	iNaturalist
Bridled Arches	•	NII.	TALL
Moth	Lacinipolia lorea	NL	iNaturalist
Hemlock			
Looper Moth	Lambdina fiscellaria	NL	iNaturalist
Northern Pine			
Sphinx	Lapara bombycoides	NL	iNaturalist

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Light-ribboned	Leptostales	NL	iNaturalist
Wave	ferruminaria		
Northern	Lethe anthedon	NL	iNaturalist
Pearly-eye	Lettre diffiredori	142	n tataranst
Eyed Brown	Lethe eurydice	NL	iNaturalist
Unarmed	Leucania inermis	NL	iNaturalist
Wainscot	Leacanta triermis	INL	INACUIAIISC
White Satin	Leucoma salicis	NL	iNaturalist
Moth	Leucoma salicis	INL	inaturalist
Green	Lavianisata		
Leuconycta	Leuconycta	NL	iNaturalist
Moth	diphteroides		
Viceroy	Limenitis archippus	NL	iNaturalist
Red-spotted	L'acception allocations	NII	Philosophy Project
Admiral	Limenitis arthemis	NL	iNaturalist
American White	Limenitis arthemis	NII	**************************************
Admiral	arthemis	NL	iNaturalist
Double-lined	1 1 1:1:	NII	**************************************
Prominent	Lochmaeus bilineata	NL	iNaturalist
White Spring	Lomographa	NII	:NI=4=1:-4
Moth	vestaliata	NL	iNaturalist
Hobomok	l an lankanasi.	NII	:NI=4=1:-4
Skipper	Lon hobomok	NL	iNaturalist
Hickory Tussock	1	NII	:NI=4=1:-4
Moth	Lophocampa caryae	NL	iNaturalist
Spotted	Lophocampa	NII	iNlotuvolist
Tussock Moth	maculata	NL	iNaturalist
Merrick's	Loxostegopsis	NII	:Ninte contint
Pyralid Moth	merrickalis	NL	iNaturalist
Small Copper	Lycaena phlaeas	NL	iNaturalist
Black-and-			
yellow Lichen	Lycomorpha pholus	NL	iNaturalist
Moth			
LD Moth	Lymantria dispar	NL	iNaturalist
Common Angle	Macaria aemulataria	NL	iNaturalist
			

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Ivallie	Status	Jource	
Red-headed	Macaria hisianata	NL	iNaturalist	
Inchworm Moth	Macaria bisignata	INL	inaturalist	
Minor Angle	Macaria minorata	NL	iNaturalist	
White Pine	Macaria pinistrobata	NL	iNaturalist	
Angle	Macaria piristrobata	INL	inaturalist	
Lesser Maple				
Spanworm	Macaria pustularia	NL	iNaturalist	
Moth				
Mottled	Macrurocampa	NL	iNaturalist	
Prominent	marthesia	142	nvacaranse	
Eastern Tent	Malacosoma	NL	iNaturalist	
Caterpillar Moth	americana		i rataranst	
Forest Tent	Malacosoma disstria	NL	iNaturalist	
Caterpillar Moth	Tratacosoma atsstrta	142	n vaccardii St	
Black-dotted	Maliattha synochitis	NL	iNaturalist	
Glyph	Trattatina symbolicas	112	n tataranst	
Dark				
Marathyssa	Marathyssa inficita	NL	iNaturalist	
Moth				
Little Wood	Megisto cymela	NL	iNaturalist	
Satyr				
Hitched Arches	Melanchra adjuncta	NL	iNaturalist	
Zebra	Melanchra picta	NL	iNaturalist	
Caterpillar Moth	,			
Pale	Metarranthis		18.1 ·	
Metarranthis	indeclinata	NL	iNaturalist	
Moth				
Minor Grass-	Microcrambus minor	NL	iNaturalist	
veneer				
White-dotted	Nadata gibbosa	NL	iNaturalist	
Prominent				
Large Yellow	Noctua pronuba	NL	iNaturalist	
Underwing	· 	NII	:NI-AII-A	
Mourning Cloak	Nymphalis antiopa	NL	iNaturalist	
Compton	Nymphalis l-album	NL	iNaturalist	
Tortoiseshell				

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Astronomer	Olethreutes	NL	iNaturalist
Moth	astrologana		
	Olethreutes	NL	iNaturalist
	auricapitana		
Banded			
Olethreutes	Olethreutes fasciatana	NL	iNaturalist
Moth			
Woolly-backed	Olethreutes	NL	iNaturalist
Moth	furfuranum		n tataranst
	Olethreutes	NL	iNaturalist
	quadrifidum	IVL	inaturalist
White-streaked	Oligocentria lignicolor	NL	iNaturalist
Prominent	Oligocernina lightcolor	INL	INACUIAIISC
White-marked	Orgyia leucostigma	NL	iNaturalist
Tussock Moth	Orgyta teacostigina	INL	inaturalist
Cynical Quaker	Orthodes cynica	NL	iNaturalist
Splendid Palpita	Palpita magniferalis	NL	iNaturalist
Moth	Fulpitu magniferatis	INL	inaturalist
Faint-spotted	Palthis asopialis	NL	iNaturalist
Palthis Moth	ruitinis usopiulis	INL	inaturalist
Three-lined	Pandemis limitata	NL	iNaturalist
Leafroller Moth	Panaemis iimitata	INL	INdturdist
Red-lined	Panopoda rufimargo	NL	iNaturalist
Panopoda Moth	Funopoda rajimargo	INL	inaturalist
Eastern Panthea	Panthea furcilla	NL	iNaturalist
Moth	Pantnea jurcilia	INL	INdturdiist
Blinded Sphinx	Paonias excaecata	NL	iNaturalist
Small-eyed	Dannias museus	NII	:Net wellet
Sphinx	Paonias myops	NL	iNaturalist
Canadian Tiger	Danilia agnadaraia	NII	:Net wellet
Swallowtail	Papilio canadensis	NL	iNaturalist
Eastern Giant	Danilla anno de estas	NII	:NI-AII-A
Swallowtail	Papilio cresphontes	NL	iNaturalist
Black	D. C.	NII	Photos Pro
Swallowtail	Papilio polyxenes	NL	iNaturalist

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Spicebush	Papilio troilus	NL	iNaturalist
Swallowtail			
Maple	Paraclemensia	NL	iNaturalist
Leafcutter Moth	acerifoliella	146	nvacaranse
Chestnut-			
marked	Parapoynx badiusalis	NL	iNaturalist
Pondweed	r arapoyrin baatasatts	142	n tataranst
Moth			
Obscure			
Pondweed	Parapoynx obscuralis	NL	iNaturalist
Moth			
Green Pug	Pasiphila rectangulata	NL	iNaturalist
Titian Peale's	Perispasta caeculalis	NL	iNaturalist
Moth	renspusia caecalalis	INL	inaturalist
Morrison's Pero	Pero morrisonaria	NL	iNaturalist
Moth	reio mortsonarta	NL	inaturalist
American Oak	Phaeoura quernaria	NL	iNaturalist
Beauty	Frideodra querriana		inaturalist
Dark-banded	Phalaenophana	NL	iNaturalist
Owlet	pyramusalis	INL	inaturalist
Small Phigalia	Dhigalia strigataria	NL	iNaturalist
Moth	Phigalia strigataria	INL	inaturalist
Half-wing Moth	Phigalia titea	NL	iNaturalist
Pearl Crescent	Phyciodes tharos	NL	iNaturalist
	Phyllocnistis vitifoliella	NL	iNaturalist
American	Phyllodesma	NII	Philade and Philade
Lappet Moth	americana	NL	iNaturalist
Basswood	Phyllonorycter	NII	INI-A
Miner Moth	lucetiella	NL	iNaturalist
Decide NC Lea	Phyllonorycter	NII	Philade and Park
Beech Midget	maestingella	NL	iNaturalist
Mustard White	Pieris oleracea	NL	iNaturalist
Cabbage White	Pieris rapae	NL	iNaturalist
Tufted Apple	-		
Bud Moth	Platynota idaeusalis	NL	iNaturalist
·			

	Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹		
Name	Jeionalie Maile	Status			
Common Tan	Pleuroprucha	NL	iNaturalist		
Wave	insulsaria	INL	inaturalist		
Putnam's	Di viene (mari	NII	2NI at a a Par		
Looper Moth	Plusia putnami	NL	iNaturalist		
Long Dash	Polites mystic	NL	iNaturalist		
Peck's Skipper	Polites peckius	NL	iNaturalist		
Tawny-edged Skipper	Polites themistocles	NL	iNaturalist		
Eastern Comma	Polygonia comma	NL	iNaturalist		
Question Mark	Polygonia interrogationis	NL	iNaturalist		
Small Bird-	Ponometia	NL	iNaturalist		
dropping Moth	erastrioides	INL	inaturalist		
Carpenterworm Moth	Prionoxystus robiniae	NL	iNaturalist		
Friendly Probole Moth	Probole amicaria	NL	iNaturalist		
Pale Glyph	Protodeltote albidula	NL	iNaturalist		
Large Mossy	Protodeltote	NII	:Net-wellet		
Glyph	muscosula	NL	iNaturalist		
Pink-barred Pseudeustrotia Moth	Pseudeustrotia carneola	NL	iNaturalist		
Poplar Leafroller Moth	Pseudosciaphila duplex	NL	iNaturalist		
Dotted Leaftier Moth	Psilocorsis reflexella	NL	iNaturalist		
Isabella Tiger Moth	Pyrrharctia isabella	NL	iNaturalist		
Spotted Grass Moth	Rivula propinqualis	NL	iNaturalist		
Hickory Hairstreak	Satyrium caryaevorus	NL	iNaturalist		
Morning-glory Prominent	Schizura ipomaeae	NL	iNaturalist		

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Ivame	Status	Source	
Unicorn	C-1-:	NII	Man maller	
Prominent	Schizura unicornis	NL	iNaturalist	
Many-spotted	Carraria haralia		Mat	
Scoparia Moth	Scoparia basalis	NL	iNaturalist	
Dark Brown	Congrig popumbralis	NL	iNaturalist	
Scoparia Moth	Scoparia penumbralis	INL	inaturalist	
Large Lace-	Scopula limboundata	NL	iNaturalist	
border Moth	Scopula limboundata	INL	inaturalist	
Carrot Seed	Sitochroa palealis	NL	iNaturalist	
Moth	Sitocinoa pateatis	INL	inaturalist	
Six-spotted	Spargaloma	NL	iNaturalist	
Gray	sexpunctata	IVL	inaturalist	
Distinct				
Sparganothis	Sparganothis distincta	NL	iNaturalist	
Moth				
Mosaic	Sparganothis			
Sparganothis	xanthoides	NL	iNaturalist	
Moth	Xummotacs			
Aphrodite	Speyeria aphrodite	NL	iNaturalist	
Fritillary	Speyerta apmoutte	.,,	n tataranst	
Great Spangled	Speyeria cybele	NL	iNaturalist	
Fritillary			tataranst	
Great Ash	Sphinx chersis	NL	iNaturalist	
Sphinx				
Laurel Sphinx	Sphinx kalmiae	NL	iNaturalist	
Virginian Tiger	Spilosoma virginica	NL	iNaturalist	
Moth				
	Stigmella prunifoliella	NL	iNaturalist	
	Symmerista	NL	iNaturalist	
Maple Callus	Synanthedon acerni	NL	iNaturalist	
Borer Moth				
Triangle-				
marked Twirler	Taygete attributella	NL	iNaturalist	
Moth				
Y-backed	Telphusa longifasciella	NL	iNaturalist	
Telphusa				

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
White Slant-line	Tetracis cachexiata	NL	iNaturalist
Yellow Slant-	Tetracis crocallata	NL	iNaturalist
line	retracts crocultata	INL	inaturalist
Bronze Copper	Tharsalea hyllus	NL	iNaturalist
Northern	The sure de see see also de se	NII	Man maller
Cloudywing	Thorybes pylades	NL	iNaturalist
Essex Skipper	Thymelicus lineola	NL	iNaturalist
Birch Conch	Thyraylia nana	NL	iNaturalist
Large Tolype	T. 1. 11. 1	N.I.	151
Moth	Tolype velleda	NL	iNaturalist
Early Button	-	N.II	
Slug Moth	Tortricidia testacea	NL	iNaturalist
White-striped	Trichodezia	N.II	
Black	albovittata	NL	iNaturalist
Snowy Urola		N.II	
Moth	Urola nivalis	NL	iNaturalist
Red Admiral	Vanessa atalanta	NL	iNaturalist
Painted Lady	Vanessa cardui	NL	iNaturalist
American Lady	Vanessa virginiensis	NL	iNaturalist
Dark-barred			
Twin-spot	Xanthorhoe ferrugata	NL	iNaturalist
Carpet	_		
Crocus			
Geometer	Xanthotype	NL	iNaturalist
Moths			
	Xestia	NL	iNaturalist
Greater Black-	Variation II	NII	2NL a call a
letter Dart	Xestia dolosa	NL	iNaturalist
Brown-spotted	7	N.I.	The second second
Zale Moth	Zale helata	NL	iNaturalist
Grayish Fan-	Zanclognatha	NII	Philade and Park
foot	pedipilalis	NL	iNaturalist
Caddisflies	·		
	Nectopsyche exquisita	NL	iNaturalist
	, , , ,		

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common Name	Scientific Name	Conservation Status	Source ¹	
Cockroaches and	Termites			
Pennsylvania Wood Cockroach	Parcoblatta pennsylvanica	NL	iNaturalist	
Daddy Longlegs				
European Harvestman	Phalangium opilio	NL	iNaturalist	
Dragonflies and I	Damselflies			
Canada Darner	Aeshna canadensis	NL	iNaturalist	
Lance-tipped Darner	Aeshna constricta	NL	iNaturalist	
Shadow Darner	Aeshna umbrosa	NL	iNaturalist	
Common Green Darner	Anax junius	NL	iNaturalist	
Lilypad Clubtail	Arigomphus furcifer	NL	iNaturalist	
Springtime Darner	Basiaeschna janata	NL	iNaturalist	
Halloween Pennant	Celithemis eponina	NL	iNaturalist	
Aurora Damsel	Chromagrion conditum	NL	iNaturalist	
Stream Cruiser	Didymops transversa	NL	iNaturalist	
Racket-tailed Emerald	Dorocordulia libera	NL	iNaturalist	
Familiar Bluet	Enallagma civile	NL	iNaturalist	
Stream Bluet	Enallagma exsulans	NL	iNaturalist	
Orange Bluet	Enallagma signatum	NL	iNaturalist	
Swamp Darner	Epiaeschna heros	NL	iNaturalist	
Beaverpond Baskettail	Epitheca canis	NL	iNaturalist	
Common Baskettail	Epitheca cynosura	NL	iNaturalist	
Prince Baskettail	Epitheca princeps	NL	iNaturalist	
Spiny Baskettail	Epitheca spinigera	NL	iNaturalist	
Eastern Pondhawk	Erythemis simplicicollis	NL	iNaturalist	

	riidlife Species Potentia	Conservation	iii tile Study Afea
Common Name	Scientific Name	Status	Source ¹
	Canadaaaahaa	Status	
Harlequin	Gomphaeschna	NL	iNaturalist
Darner	furcillata		This is the second of the seco
Dragonhunter	Hagenius brevistylus	NL	iNaturalist
Fragile Forktail	Ischnura posita	NL	iNaturalist
Eastern Forktail	Ischnura verticalis	NL	iNaturalist
Chalk-fronted	Ladona julia	NL	iNaturalist
Corporal			
Spotted	Lestes congener	NL	iNaturalist
Spreadwing			nvataranst
Slender	Lestes rectangularis	NL	iNaturalist
Spreadwing	Lestes rectarigutarts	INL	INACUIAIISC
Lyre-tipped	Lostos unaujeulatus	NL	Natura Evolarar
Spreadwing	Lestes unguiculatus	INL	Nature Explorer
Swamp	Lastas visilav	NII	:Ninternalist
Spreadwing	Lestes vigilax	NL	iNaturalist
Hudsonian	Leucorrhinia	NII	Philosophy Project
Whiteface	hudsonica	NL	iNaturalist
Dot-tailed		NL iNa	**************************************
Whiteface	Leucorrhinia intacta		iNaturalist
Slaty Skimmer	Libellula incesta	NL	iNaturalist
Widow			
Skimmer	Libellula luctuosa	NL	iNaturalist
Twelve-spotted			
Skimmer	Libellula pulchella	NL	iNaturalist
Four-spotted	Libellula		
Skimmer	quadrimaculata	NL	iNaturalist
Painted	,		
Skimmer	Libellula semifasciata	NL	iNaturalist
Swift River			
Cruiser	Macromia illinoiensis	NL	iNaturalist
Elfin Skimmer	Nannothemis bella	NL	iNaturalist
	Pachydiplax		
Blue Dasher	longipennis	NL	iNaturalist
Eastern			
Amberwing	Perithemis tenera	NL	iNaturalist
- Alliber willig			

	ildlife Species Potentia		in the Study Area	
Common	Scientific Name	Conservation		Source ¹
Name		Status		
Common	Plathemis lydia	NL	iNaturalist	
Whitetail				
Meadowhawks	Sympetrum	NL	iNaturalist	
Autumn	Sympetrum vicinum	NL	iNaturalist	
Meadowhawk				
Flies				
Woodland Pool	Aedes canadensis	NL	iNaturalist	
Mosquito	Aedes caridaerisis	INL	iivaturaiist	
Oblique	Allograpta obligua	NL	iNaturalist	
Streaktail	Allograpta obliqua	INL	IIVaturalist	
Carbonifera	Astonomia			
goldenrod gall	Asteromyia	NL	iNaturalist	
midge	carbonifera			
Greater Bee Fly	Bombylius major	NL	iNaturalist	
Pygmy Bee Fly	Bombylius pygmaeus	NL	iNaturalist	
	Calycomyza			
	flavinotum	NL	iNaturalist	
Ornate Snipe	·			
Fly	Chrysopilus ornatus	NL	iNaturalist	
	Chrysops geminatus	NL	iNaturalist	
Bathroom Moth				
Fly	Clogmia albipunctata	NL	iNaturalist	
,	Condylostylus			
	patibulatus	NL	iNaturalist	
Cattail	Coquillettidia			
Mosquito	perturbans	NL	iNaturalist	
iviosquito	Dioctria hyalipennis	NL	iNaturalist	
European	Diociria fiyatiperinis	INL	inataranst	
Drone Fly	Eristalis arbustorum	NL	iNaturalist	
Black-				
shouldered	Eristalis dimidiata	NII	iNaturalist	
	Eristalis dimidiata	NL	iiNaturaliSt	
Drone Fly				
Common Drone	Eristalis tenax	NL	iNaturalist	
Fly				
Tomato Bristle	Hystricia abrupta	NL	iNaturalist	
Fly	, · · · · · · ·			

	ildlife Species Potential		iii tiie Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
_	Laphria flavicollis	NL	iNaturalist
Bumble Bee			
Mimic Robber	Laphria thoracica	NL	iNaturalist
Fly			
Milkweed Leaf-	Livianovaa asslaniadis	NL	iNaturalist
miner Fly	Liriomyza asclepiadis	INL	inaturalist
	Liriomyza carphephori	NL	iNaturalist
Common			
European	Lucilia sericata	NL	iNaturalist
Greenbottle Fly			
Hairy-eyed Bee-			
mimic Fly	Mallota posticata	NL	iNaturalist
Narcissus Bulb			
Fly	Merodon equestris	NL	iNaturalist
Beautiful			
Patterneye	Orthonevra pulchella	NL	iNaturalist
Dusky Bog Fly	Parhelophilus rex	NL	iNaturalist
	Phytomyza loewii	NL	iNaturalist
	Phytomyza minuscula		
	group	NL	iNaturalist
Oak Leaf Gall	<u> </u>		
Midge	Polystepha pilulae	NL	iNaturalist
Dark Ricefield			
Mosquito	Psorophora columbiae	NL	iNaturalist
Common Snipe			
Fly	Rhagio mystaceus	NL	iNaturalist
Black Horse Fly	Tabanus atratus	NL	iNaturalist
Antlered Crane	T	N.II	N P
Fly	Tanyptera dorsalis	NL	iNaturalist
Eastern			
Calligrapher	Toxomerus geminatus	NL	iNaturalist
Margined	Toxomerus	NII	Maria de Par
Calligrapher	marginatus	NL	iNaturalist
Swift Feather-		NII	Maria de Par
legged Fly	Trichopoda pennipes	NL	iNaturalist

Common	ildlife Species Potential	Conservation	in the Study Area
Name	Scientific Name		Source ¹
		Status	
Four-barred Knapweed Gall Fly	Urophora quadrifasciata	NL	iNaturalist
Tiger Bee Fly	Xenox tigrinus	NL	iNaturalist
Woodland Pool Mosquito	Aedes canadensis	NL	iNaturalist
Grasshoppers, Lo	custs, and Crickets		
Davis's Shieldback	Atlanticus davisi	NL	iNaturalist
Wingless Mountain Grasshopper	Booneacris glacialis	NL	iNaturalist
Sprinkled Locust	Chloealtis conspersa	NL	iNaturalist
Green-striped Grasshopper	Chortophaga viridifasciata	NL	iNaturalist
Northern Green-striped Grasshopper	Chortophaga viridifasciata viridifasciata	NL	iNaturalist
Slender Meadow Katydid	Conocephalus fasciatus	NL	iNaturalist
Carolina Grasshopper	Dissosteira carolina	NL	iNaturalist
Fall Field Cricket	Gryllus pennsylvanicus	NL	iNaturalist
Spring Field Cricket	Gryllus veletis	NL	iNaturalist
Two-striped Grasshopper	Melanoplus bivittatus	NL	iNaturalist
Northern Spur- throat Grasshopper	Melanoplus borealis	NL	iNaturalist
Huckleberry Spur-throat Grasshopper	Melanoplus fasciatus	NL	iNaturalist

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Ivallie	Status	Source	
Pine-tree Spur-	Malarad			
throat	Melanoplus	NL	iNaturalist	
Grasshopper	punctulatus			
Pine Tree				
Cricket	Oecanthus pini	NL	iNaturalist	
Marsh meadow	Pseudochorthippus			
grasshopper	curtipennis	NL	iNaturalist	
Roesel's Bush-	cartiperinis			
cricket	Roeseliana roeselii	NL	iNaturalist	
-				
Boll's	Spharagemon bolli	NL	iNaturalist	
Grasshopper				
Lacewings				
Black-horned	Chrysopa nigricornis	NL	iNaturalist	
Green Lacewing				
	Chrysopa oculata	NL	iNaturalist	
Mantises				
European	Mantis religiosa	NII	iNaturalist	
Mantis	Mantis religiosa	NL iNaturalist	iivaturalist	
Mayflies				
Giant Mayfly	Hexagenia limbata	NL	iNaturalist	
Mites				
Poison Ivy Leaf				
Mite	Aculops rhois	NL	iNaturalist	
Sawflies, Wasps, I	Bees, and Ants			
, 15-57	Acrotaphus wiltii	NL	iNaturalist	
Spongy Oak	•			
Apple Gall	Amphibolips	NL	iNaturalist	
Wasp	confluenta		i racaranst	
Oak Apple Gall				
	Amphibolips cookii	NL	iNaturalist	
Wasp	A manufactor a line of			
Translucent Oak	Amphibolips	NL	iNaturalist	
Gall Wasp	nubilipennis			
Acorn Plum Gall	Amphibolips	NL	iNaturalist	
Wasp	quercusjuglans			
Lobed Mason	Ancistrocerus antilope	NL	iNaturalist	
Wasp	- Theisiroccius antitope	INL	ii vataranst	
	<u> </u>	-		

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Name	Status	Source	
Spinola's Mason	A	NII	PNI of the Print	
Wasp	Ancistrocerus spinolae	NL	iNaturalist	
Clark's Mining				
Bee	Andrena clarkella	NL	iNaturalist	
Hairy-banded				
Mining Bee	Andrena hirticincta	NL	iNaturalist	
Oblong	Anthidium			
Woolcarder Bee	oblongatum	NL	iNaturalist	
Orange-tipped	-			
Wood-digger	Anthophora terminalis	NL	iNaturalist	
Bee	·			
Queen Ant	Ambilanthan Civil	NII	:NI-t	
Kidnapper	Aphilanthops frigidus	NL	iNaturalist	
Western Honey	A	NII	:NI=4=1:-4	
Bee	Apis mellifera	NL	iNaturalist	
Pure Green-	A	NII	:NI=4	
Sweat bee	Augochlora pura	NL	iNaturalist	
Golden Sweat	A 11 11 .	NL	iNlaturalist	
Bee	Augochlorella aurata	INL	iNaturalist	
Metallic	Augochloronsis			
Epauletted-	Augochloropsis metallica	NL	iNaturalist	
Sweat bee	metatica			
Four-banded	Bicyrtes	NL	iNaturalist	
Stink Bug Wasp	quadrifasciatus	INL	inaturalist	
Rusty-patched	Bombus affinis	SGCN-HP	iNaturalist	
Bumble Bee	טטווטעט עוןעוונט	JUCIN-11F	nvaturanst	
Black-and-gold	Bombus auricomus	NL	iNaturalist	
Bumble Bee	Dombus danteomus	1 4 L	in vaccinalist	
Northern				
Amber Bumble	Bombus borealis	SGCN-HP	iNaturalist	
Bee				
Lemon Cuckoo-	Bombus citrinus	NL	iNaturalist	
Bumble bee	Dombas cararas		i racaranst	
Golden				
Northern	Bombus fervidus	SGCN-HP	iNaturalist	
Bumble Bee				

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name		Status		
Brown-belted	Bombus griseocollis	NL	iNaturalist	
Bumble Bee				
Common				
Eastern Bumble	Bombus impatiens	NL	iNaturalist	
Bee				
American	Bombus pensylvanicus	SGCN-HP	iNaturalist	
Bumble Bee			"Vataranst	
Tricolored	Bombus ternarius	NL	iNaturalist	
Bumble Bee	Dombas ternartas	IVL	Inaturalist	
Yellow-banded	Bombus terricola	SGCN-HP	iNaturalist	
Bumble Bee	Bombus terricolu	3GCN-HP	inaturanst	
Half-black	Pombus yagans	NL	iNaturalist	
Bumble Bee	Bombus vagans	INL	inaturanst	
Hairless Rover	Prachymyrmov donilic	NL	iNaturalist	
Ant	Brachymyrmex depilis	INL	inaturalist	
New York	Camponotus	NL	iNaturalist	
Carpenter Ant	novaeboracensis	INL IINALUI	inaturalist	
Eastern Black	Camponotus	NII	iNotuvalist	
Carpenter Ant	pennsylvanicus	NL	iNaturalist	
Typical Weevil				
Wasps and	Cerceris	NL	iNaturalist	
Allies				
Smoky-winged				
Beetle Bandit	Cerceris fumipennis	NL	iNaturalist	
Wasp				
Nearctic Blue	Clashibian			
Mud-dauber	Chalybion	NL	iNaturalist	
Wasp	californicum			
Steel-blue				
Cricket-hunter	Chlorion aerarium	NL	iNaturalist	
Wasp				
	Chrysis cessata	NL	iNaturalist	
Cherry Ant	Crematogaster cerasi	NL	iNaturalist	
Feather-legged	Dielis plumipes	NL	iNaturalist	
Scoliid Wasp	, ,			

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Mossy Rose Gall	Diplolepis rosae	NL	iNaturalist
Wasp			n vacaranse
Common Aerial	Dolichovespula	NL	iNaturalist
Yellowjacket	arenaria	INL	nvataranst
Bald-faced	Dolichovespula	NL	iNaturalist
Hornet	maculata	INL	ivaturalist
Fraternal Potter	Function of fraterious	NII	iNoturalist
Wasp	Eumenes fraternus	NL	iNaturalist
Uncertain Field	Farmaia a imagenta	NII	:NI_t:
Ant	Formica incerta	NL	iNaturalist
Pale Field Ant	Formica pallidefulva	NL	iNaturalist
Blueberry	Habaaa da labaaiaa	NII	:NI=4
Digger Bee	Habropoda laboriosa	NL	iNaturalist
Confusing	Haliatura as of come	NII	:NI=4
Furrow Bee	Halictus confusus	NL	iNaturalist
Ligated Furrow	H.P. C. P. d.	NII	"NI at a sell at
Bee	Halictus ligatus	NL	iNaturalist
Orange-legged	11 12 1 12 1	NII	"NI at a sell at
Furrow Bee	Halictus rubicundus	NL iNaturalist	inaturalist
Produced	Hanlitis products	NII	iNot valiet
Small-Mason	Hoplitis producta	NL	iNaturalist
	Lasioglossum vierecki	NL	iNaturalist
Shaded Fuzzy	Lasius aphidicola	NL	iNaturalist
Ant	Lasius aphidicola	INL	inaturalist
Smaller Yellow	Lasius claviger	NL	iNaturalist
Ant	Lusius ciuviyei	INL	iivatulalist
New World	Lasius nearcticus	NL	iNaturalist
Fuzzy Ant	Lusius Heuretteus	INL	inaturalist
	Leucospis affinis	NL	iNaturalist
Broad-handed	Mogachilo latimanus	NII	iNaturalist
Leafcutter	Megachile latimanus	NL	iNaturalist
Black Giant			
Ichneumonid	Megarhyssa atrata	NL	iNaturalist
Wasp	-		
Long-tailed	Magarburga	NII	iNlotuvolist
Giant	Megarhyssa macrurus	NL	iNaturalist

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	552100
Ichneumonid			
Wasp			
Pickerelweed			
Long-horned	Melissodes apicatus	NL	iNaturalist
Bee			
Drury's Long-	Melissodes druriellus	NL	iNaturalist
horned Bee	Melissodes di di lellas	INL	INdturdiist
	Microbembex	NII	:Nist
	monodonta	NL	iNaturalist
Bufflehead	0	NII	The second secon
Mason Bee	Osmia bucephala	NL	iNaturalist
American			
Pelecinid Wasp	Pelecinus polyturator	NL	iNaturalist
Flat-collared			
Beewolf	Philanthus ventilabris	NL	iNaturalist
European Paper			
Wasp	Polistes dominula	NL	iNaturalist
Dark Paper			
Wasp	Polistes fuscatus	NL	iNaturalist
	Pseudomethoca		
	frigida	NL	iNaturalist
Yellow-legged	₁ rigida		
Mud-dauber	Sceliphron	NL	iNaturalist
Wasp	caementarium	146	in vacciful St
Eastern Cicada-			
killer Wasp	Sphecius speciosus	NL	iNaturalist
Great Black			
Digger Wasp	Sphex pensylvanicus	NL	iNaturalist
	Ctiamatomma nallinos	NL	iNaturalist
Vampire Ant	Stigmatomma pallipes	INL	iivaturalist
Immigrant	Tetramorium 	NL	iNaturalist
Pavement Ant	immigrans	NII	Ph. Carlo
	Timulla vagans	NL	iNaturalist
Pigeon Horntail	Tremex columba	NL	iNaturalist
European	Vespa crabro	NL	iNaturalist
Hornet	,		

Table 11.B-1 Wildlife Species Potentially Present within the Study Area				
Common	Scientific Name	Conservation	Source ¹	
Name	Scientific Name	Status	Source	
Downy	Vocaula flavonilosa	NII	iNoturalist	
Yellowjacket	Vespula flavopilosa	NL	iNaturalist	
German	Vanue	NII	iNinte contint	
Yellowjacket	Vespula germanica	NL	iNaturalist	
Eastern	Vocavila massilifesis	NII	iNote wallet	
Yellowjacket	Vespula maculifrons	NL	iNaturalist	
Widow	Vocaula vidua	NII	iNoturalist	
Yellowjacket	Vespula vidua	NL	iNaturalist	
Eastern	Vylocona virginica	NL	iNaturalist	
Carpenter Bee	Xylocopa virginica	INL	iivatulalist	
Snails and Slugs				
Northern	Diapheromera	NL	iNaturalist	
Walkingstick	femorata	INL	iivatuiaiist	
Hedgehog Slug	Arion intermedius	NL	iNaturalist	
Western Dusky	Arion subfuscus	NL	iNaturalist	
Slug	Artori subjuscus	INL	nvaturanst	
Brown-lipped	Cepaea nemoralis	NL	iNaturalist	
Snail	Cepaca nemoralis	INL		
Leopard Slug	Limax maximus	NL	iNaturalist	
Spiders				
Grass Spiders	Agelenopsis	NL	iNaturalist	
Cross	Araneus diadematus	NL	iNaturalist	
Orbweaver	, ii ancas atauematas	INL	nacaranst	
Marbled	Araneus marmoreus	NL	iNaturalist	
Orbweaver	, ii diledə ilidililliledə	114	n tatalanst	
Shamrock	Araneus trifolium	NL	iNaturalist	
Orbweaver	, a aneas a quadan	114	n tacaranst	
Six-spotted	Araniella displicata	NL	iNaturalist	
Orbweaver	Aramena dispucata		tacaranac	
Yellow Garden	Argiope aurantia	NL	iNaturalist	
Spider	Argiope durantia	INL	nataranst	
Banded Garden	Argiope trifasciata	NL	iNaturalist	
Spider	Argiope irijusciala	INL	nvacaranst	
Asiatic Wall	Attulus fasciger	NL	iNaturalist	
Jumping Spider	Allulus Justiyei	INL	maturanst	

	ildlife Species Potential		iii tiie Study Area
Common	Scientific Name	Conservation	Source ¹
Name		Status	
Dark Fishing	Dolomedes tenebrosus	NL	iNaturalist
Spider			
Six-spotted	Dolomedes triton	NL	iNaturalist
Fishing Spider			
Common			
candy-striped	Enoplognatha ovata	NL	iNaturalist
spider			
Hoy's Jumping	Evarcha hoyi	NL	iNaturalist
Spider		116	invacurans:
Boreal Paradise	Habronattus borealis	NL	iNaturalist
Spider	Trabionatius boreatis	INL	inaturalist
Maddison's	Habronattus	NL	iNaturalist
Jumping Spider	calcaratus maddisoni	INL	inaturalist
	Habronattus decorus	NL	iNaturalist
Eastern Parson	Herpyllus	NII	:Niet. wellet
Spider	ecclesiasticus	NL iI	iNaturalist
Furrow	La data da cara da car	NL iNaturalist	Philade and Philade
Orbweaver	Larinioides cornutus		inaturalist
Grey Cross	Larinioides	N.I.	The second second
Spider	sclopetarius	NL	iNaturalist
Tuft-legged			
Orbweaver	Mangora placida	NL	iNaturalist
Eastern Cave			
Long-jawed	Meta ovalis	NL	iNaturalist
Spider			
Goldenrod Crab			
Spider	Misumena vatia	NL	iNaturalist
flea jumping			
spider	Naphrys pulex	NL	iNaturalist
Common			·
White-cheeked	Pelegrina proterva	NL	iNaturalist
Jumping Spider	J 1 F 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Bold Jumping			
Spider	Phidippus audax	NL	iNaturalist
Brilliant			
Jumping Spider	Phidippus clarus	NL	iNaturalist
Jamping Spidel			

Table 11.B-1 Wildlife Species Potentially Present within the Study Area Common Conservation				
Scientific Name	Conservation	Source ¹		
Scientific Name	Status	Jource		
Phidippus purpuratus	NII	iNaturalist		
rmaippus parparatus	INL	inaturanst		
Pisaurina mira	NL	iNaturalist		
Salticus sconicus	NII	iNaturalist		
Sutticus sceriicus	INL	invaturanst		
Sphodros pigar	NII	iNaturalist		
Spriouros riiger	INL	inaturanst		
Steatoda	NII	iNaturalist		
Steatodd	INL	invaturanst		
Steatoda triangulosa	NI	iNaturalist		
Steatodd triangaiosa	INL	mataranst		
Trachelas tranquillus	NI	iNaturalist		
Trachetas tranquittas	INL	invaturanst		
Tutelina harti	NII	iNaturalist		
ratetina narti	142	nvacaranse		
Hohorus alomosus	NI	iNaturalist		
	112			
Dermacentor variabilis	NI	iNaturalist		
Demination variables				
Ixodes scapularis	NL	iNaturalist		
Acanalonia hivittata	NL	iNaturalist		
Acanthocephala	NL	iNaturalist		
Atymna querci	NL	iNaturalist		
Blissus leucopterus	NL	iNaturalist		
Boisea trivittata	NL	iNaturalist		
Chinavia hilaris	NL	iNaturalist		
Clastontera proteus	NL	iNaturalist		
	Phidippus purpuratus Pisaurina mira Salticus scenicus Sphodros niger Steatoda Steatoda triangulosa Trachelas tranquillus Tutelina harti Uloborus glomosus Dermacentor variabilis Ixodes scapularis Acanalonia bivittata Acanthocephala terminalis Atymna querci Blissus leucopterus Boisea trivittata	Scientific NameConservation StatusPhidippus purpuratusNLPisaurina miraNLSalticus scenicusNLSphodros nigerNLSteatodaNLSteatoda triangulosaNLTrachelas tranquillusNLUloborus glomosusNLDermacentor variabilisNLIxodes scapularisNLAcanalonia bivittataNLAcanthocephala terminalisNLAtymna querciNLBlissus leucopterusNLBoisea trivittataNLChinavia hilarisNL		

	ildlife Species Potentia		in the Study Area
Common	Scientific Name	Conservation	Source ¹
Name	Scientific Hame	Status	Source
Saddled	Colladonus clitellarius	NL	iNaturalist
Leafhopper	Colladorius Cillellarius	INL	inaturalist
Twice-stabbed	Cosmopepla	NII	iNaturalist
Stink Bug	lintneriana	NL	iNaturalist
Grape	Daktulosphaira	NL	iNaturalist
Phylloxera	vitifoliae	INL	inaturalist
Widefooted	Enchanana latinas	NII	iNaturalist
Treehopper	Enchenopa latipes	NL	iNaturalist
Keeled	Entylia carinata	NL	iNaturalist
Treehopper	Littytta Cartilata	INL	iivatuialist
Big-eyed Toad	Gelastocoris oculatus	NL	iNaturalist
Bug	Getasiocoris ocalatas	INL	iracaranst
Red-banded	Graphocephala	NL	iNaturalist
Leafhopper	coccinea	116	i racaransc
Brown			
Marmorated	Halyomorpha halys	NL	iNaturalist
Stink Bug			
Coppery	Jikradia olitoria	NL	iNaturalist
Leafhopper	Jan data ottorta		Cacaranac
Western Conifer	Leptoglossus	NL	iNaturalist
Seed Bug	occidentalis		Cacaranac
Fringetree Lace	Leptoypha mutica	NL iNaturalist	iNaturalist
Bug			
American Giant	Lethocerus	NL	iNaturalist
Water Bug	americanus	· · -	
Small Milkweed	Lygaeus kalmii	NL	iNaturalist
Bug			
Eastern Small	Lygaeus kalmii	NL	iNaturalist
Milkweed Bug	angustomarginatus		
Sumac Gall	Melaphis rhois	NL	iNaturalist
Aphid	<u> </u>		
	Merocoris distinctus	NL	iNaturalist
Citrus Flatid Planthopper	Metcalfa pruinosa	NL	iNaturalist
	Mormidea lugens	NL	iNaturalist
-	Nabis roseipennis	NL	iNaturalist
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Common Name	Scientific Name	Conservation Status	Source ¹
Northern Dog- day Cicada	Neotibicen canicularis	NL	iNaturalist
Say's Cicada	Okanagana rimosa	NL	iNaturalist
Large Milkweed Bug	Oncopeltus fasciatus	NL	iNaturalist
Meadow spittlebug	Philaenus spumarius	NL	iNaturalist
Four-lined Plant Bug	Poecilocapsus lineatus	NL	iNaturalist
	Ranatra	NL	iNaturalist
Masked Hunter	Reduvius personatus	NL	iNaturalist
Two-spotted Grass Bug	Stenotus binotatus	NL	iNaturalist
	Stictocephala lutea	NL	iNaturalist
Anchor Stink Bug	Stiretrus anchorago	NL	iNaturalist
Pale Green Assassin Bug	Zelus luridus	NL	iNaturalist

Sources: Ueda 2021; IUCN 2021; NYSDEC 2019, 2020a, 2020b, 2020c; USFWS 2020

Notes:

¹ Potential presence for mammals identified in *The Checklist of the Amphibians, Reptiles, Birds and Mammals of New York, Including Their Protective Status* (NYSDEC 2019) was determined through species range maps provided by IUCN.

Conservation Status Codes:

FT = Federally Threatened Species

NL = Not Listed

SE = NYS Endangered Species

SGCN = NYS Species of Greatest Conservation Need

SGCN-HP = NYS Species of Greatest Conservation Need – High Priority

SSC = NYS Species of Special Concern

ST = NYS Threatened Species