



# BREEDING BIRD SURVEY NEWPORT SOLAR PROJECT HERKIMER AND ONEIDA COUNTIES, NEW YORK

NEWPORT DEERFIELD SOLAR, LLC  
(BORALEX INC)

PROJECT NO.: EE1009988.0023.01.LAB-B6088  
DATE: AUGUST 2023

WSP USA INC.  
40 LA RIVIERE DRIVE, SUITE 320  
BUFFALO, NEW YORK 14202

[WSP.COM](http://WSP.COM)

This page left blank intentionally.



# TABLE OF CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>1-1</b>
1.1	Background .....	1-1
1.2	Study Area.....	1-2
<b>2</b>	<b>METHODS.....</b>	<b>2-1</b>
2.1	Study Design .....	2-1
2.2	Field Methods.....	2-2
2.2.1	Site Characterization.....	2-2
2.2.2	Bird Surveys .....	2-2
2.3	Data Analysis.....	2-3
2.4	Incidental Observations.....	2-3
2.5	Species of Concern .....	2-3
2.6	Weather Conditions .....	2-3
2.7	Quality Assurance and Quality Control .....	2-4
<b>3</b>	<b>RESULTS.....</b>	<b>3-1</b>
3.1	Survey Data Overview .....	3-1
3.2	Site Characterization Data.....	3-2
3.3	Abundance, Species Composition, Species Diversity, Relative Abundance, and Species Frequency.....	3-3
3.4	Abundance and Species Diversity by Survey Location .....	3-5
3.5	Incidental Observations.....	3-6
3.6	Species Confirmed as Local Breeders.....	3-6
3.7	Species of Concern .....	3-7
3.8	Weather Conditions and Disturbances .....	3-11
<b>4</b>	<b>DISCUSSION .....</b>	<b>4-1</b>
<b>5</b>	<b>REFERENCES .....</b>	<b>5-1</b>



## TABLES

Table 2-1	New York State-Listed Threatened and Endangered Grassland Bird Species and Grassland Bird Species of Special Concern.....	2-1
Table 3-1	Survey Dates for Breeding Bird Surveys at the Newport Solar Project in 2023 .....	3-1
Table 3-2	Vegetation Types at each Survey Point for Newport Solar Project in 2023 .....	3-2
Table 3-3	Survey Result Statistics by Species, for the Breeding Bird Survey at Newport Solar Project from April to July 2023 .....	3-3
Table 3-4	Survey Results by Point for the Breeding Bird Survey at Newport Solar Project from April to July 2023 .....	3-5
Table 3-5	New York State-Listed Species Identified during Breeding Bird Surveys for Newport Solar Project from April to July 2023 (inside 100-meter Point Count Plots) .....	3-7
Table 3-6	New York State-Listed Species Identified during Breeding Bird Surveys for Newport Solar Project from April to July 2023 (outside 100-meter Point Count Plots) .....	3-8

## FIGURES

Figure 1-1	Site Vicinity and USGS National Land Cover Database NLCD .....	1-3
Figure 2-1	Survey Locations .....	2-5
Figure 3-1	New York State-Listed Species Detections .....	3-9

## APPENDICES

<b>A</b>	Full Survey Results.....	A-1
<b>B</b>	Site Characterization Data .....	B-1
<b>C</b>	Species Summary by Survey Point and Survey Period.....	C-1
<b>D</b>	Incidental Bird Species Observed.....	D-1
<b>E</b>	Photo Log .....	E-1
<b>F</b>	Weather Conditions .....	F-1



*LIST OF ABBREVIATIONS AND ACRONYMS*

BBS	Breeding Bird Surveys
Boralex	Boralex, Inc
NYSDEC	New York State Department of Environmental Conservation
ORES	Office of Renewable Energy Siting
Facility	Newport Solar Facility
Study Plan	Avian Study Plan
T&E	Threatened and Endangered Species
WSP	WSP USA Inc.
WSC	Pre-application Wildlife Site Characterization Consultation Letter

This page left blank intentionally.

# 1 INTRODUCTION

---

## 1.1 BACKGROUND

Newport Deerfield Solar LLC (a wholly owned subsidiary of Boralex, Inc (Boralex)) is proposing to construct and operate the Newport Solar Project (Facility Site), a 130-megawatt alternating current photovoltaic facility. The Facility Site is in the towns of Newport and Deerfield, Herkimer and Oneida Counties, New York (see Figure 1-1). Facilities proposed within the Facility Site include solar arrays and other features, including pad-mounted inverter/transformers, an interconnection area, perimeter security fences, and access roads.

WSP USA Inc. (WSP) previously conducted breeding bird surveys (BBS) at the Facility Site during the 2022 breeding season. Since that time several parcels have been added to the Facility Site. At Boralex's request, WSP prepared an Avian Study Plan (Study Plan) for the additional parcels that were added to the Facility that is consistent with Office of Renewable Energy Siting (ORES) and New York State Department of Environmental Conservation (NYSDEC) guidance. The avian study plan was submitted to ORES in compliance with 19 New York Codes, Rules, and Regulations § 900-1.3(g)(4) on March 15, 2023. ORES reviewed the study plan, which was prepared consistent with the *NYSDEC Survey Protocol for State-listed Breeding Grassland Bird Species* (NYSDEC 2022) and provided comments on April 3, 2023. WSP provided a response to comments via email to ORES on April 12, 2023, which detailed how one new point was added, one was adjusted to accommodate the new point, and two were removed from surveys due to access restrictions to parcels that were to be included in surveys. WSP revised the Avian Study Plan to incorporate changes in the study that occurred after the original Study Plan submission (WSP 2023).

The objectives of the breeding bird surveys were to:

1. Collect information on the species richness and abundance of breeding grassland bird species in the Facility Site;
2. Document particular areas used by state-listed grassland bird species within the Facility Site;
3. Report the baseline data resulting from surveys; and
4. While it is not a direct objective of the survey or the report, it is understood that the data will be used to review whether suitable or occupied habitat for bird species listed as threatened or endangered by New York State or the U.S. Fish and Wildlife Service is identified within the Facility Site as part of the ORES 94-c application process.

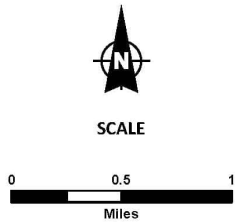
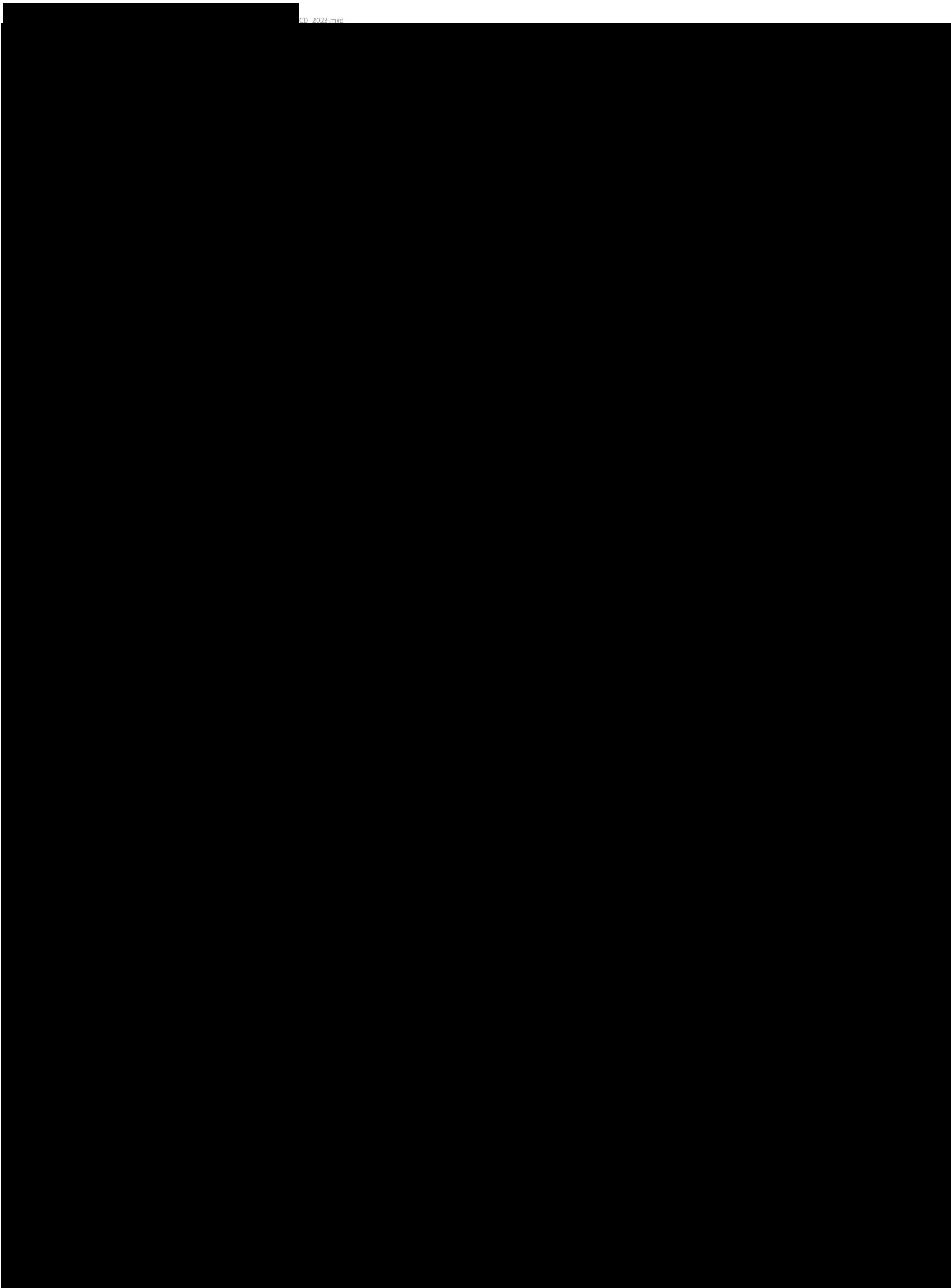
The methodology and results of the 2023 breeding bird survey effort are summarized in this report.

## 1.2 STUDY AREA

The current Facility Site, including the newly added parcels, encompasses approximately 2,481 acres in Herkimer and Oneida Counties, New York. Figure 1-1 depicts the boundaries of the Facility Site at the time of the study and the land cover types within the proposed parcels. The average elevation at the Facility Site is approximately 2,175 feet (663 meters) above sea level. Based on data from the 2019 National Land Cover Database, most of the land cover within the new parcels is composed of hay/pasture (46 percent) (USGS 2019). Other land cover types within new parcels include deciduous forest (29 percent), evergreen forest (10 percent), cultivated crops (7 percent), and woody wetlands (4 percent). Site reconnaissance is consistent with the 2019 National Land Cover Database dataset.



CD\_2023.mxd



SOURCE: ESRI 2018; ESRI 2019;  
USDA NAIP, 2019; NLCD 2021.  
© 2023 WSP

- Legend
- New Facility Site Parcel
  - Previous Facility Site Parcel
  - Town Boundary
  - County Boundary
  - Highway
  - Major Road
  - Street

BORALEX

Figure 1-1  
Breeding Bird Survey  
Site Vicinity and USGS National  
Land Cover Database NLCD

Newport Solar Facility  
Towns of Deerfield and Newport  
Herkimer and Oneida Counties, New York

This page left blank intentionally.

## 2 METHODS

The primary focus of the breeding bird surveys was to determine the presence and site use by New York State-listed threatened, endangered, and species of special concern grassland bird species during the breeding season (see Table 2-1). The breeding bird survey is part of the pre-application review by ORES in compliance with 19 New York Codes, Rules and Regulations § 900-1.3(g)(4).

**Table 2-1 New York State-Listed Threatened and Endangered Grassland Bird Species and Grassland Bird Species of Special Concern**

Threatened and Endangered Species	Species of Special Concern
Short-eared Owl (SE)	Grasshopper Sparrow (SSC)
Northern Harrier (ST)	Vesper Sparrow (SSC)
Upland Sandpiper (ST)	Horned Lark (SSC)
Henslow's Sparrow (ST)	
Sedge Wren (ST)	

Key:

SE = State-listed endangered

ST = State-listed threatened

SSC = Species of Special Concern

### 2.1 STUDY DESIGN

Eleven point count locations were established in areas of suitable grassland within new parcels at the Facility Site. The number of point count locations was determined per accessible parcel by placing a point for every 25 acres (10 hectares) of suitable grassland habitat. A minimum distance of 250 meters (820 feet) in all directions was provided between point counts and point count locations were placed to cover open habitat throughout the entire Facility Site. The study encompassed habitats that are generally representative of the area to be affected by development plans (i.e., pasture/hayfield). Prior to surveys being conducted, one point count location was dropped due to the lack of access, bringing the total number of point count locations to 11. After the first round, two points were dropped from the study: the parcel where point B2 was located was no longer a part of the Facility Site, and B3 was dropped due to lack of open habitat. In addition, four new survey locations (B12, B13, B14, and B15) were added after the first round as new parcels became accessible. Prior to the fourth round, fields associated with points B5 and B6 were converted to row crop habitat and were removed from surveys. And prior to the sixth round, parcels in the northwest corner of the Facility Site were dropped from the project; thus, Points B4, B7, and B8 were dropped from surveys. A total of six point count locations were included in surveys through round twelve (Figure 2-1).

## 2.2 FIELD METHODS

### 2.2.1 SITE CHARACTERIZATION

Survey methods for site characterization at each point count location were established in accordance with the NYSDEC *Survey Protocol for State-listed Breeding Grassland Bird Species* (NYSDEC 2022).

Site description information was collected separately and included habitat type, management practices (e.g., timing of hayfield mowing), distance from the nearest road, distance from hedgerow or forest, distance to nearest shrub, and vegetation measurements in a 25-meter (82-foot) radius from the survey point. Vegetation measurements included percent cover of each vegetation type (i.e., grass, forb, woody, and bare ground), dominant grass and dominant forb, and litter depth. A Robel pole was used to measure vegetation height and density from four cardinal directions and then averaged. The presence of invasive plant species was also recorded.

### 2.2.2 BIRD SURVEYS

Survey methods to assess breeding grassland bird use and distribution at the Facility Site were established in accordance with the avian study plan (WSP 2023).

At each point count location, the avian biologist surveyed for a period of 5 minutes after an initial 1 to 2 minutes of silence following their arrival at the survey point to allow birds to recover from any disturbance. Birds observed or heard within approximately 100 meters (328 feet) were recorded. Surveys were conducted between one-half hour before sunrise until no later than 10:30 a.m. Morning surveys were conducted at each point count location once per survey period with approximately one week between surveys. Surveys were not conducted during inclement weather (e.g., rain) or on days with strong winds (i.e., greater than 12 miles per hour). Henslow's Sparrow (*Centronyx henslowii*) was not identified as a potential target species for the Facility Site; therefore, evening surveys were not conducted.

The surveyor recorded the following data at each point count location: start and end time for each survey; weather information (i.e., temperature, wind speed, wind direction, and cloud cover); a note on habitat if appropriate (e.g., whether recently mowed); bird species identification; number of individuals per species within 100 meters; how the species was detected (visual or auditory); breeding behavior (e.g., carrying food or nest material, courtship behavior, territorial defense, singing) using New York Breeding Bird Atlas breeding codes (NYSDEC 2023); and any additional pertinent notes. Birds detected over 100 meters from the observer, between survey points during the meander survey, and flyover species were recorded in separate columns than birds detected within 100 meters.

For any federally and/or state-listed threatened or endangered species documented at the Facility Site (including incidental observations), the following information was recorded: date, time, behavior observed, perch locations, potential or confirmed nest locations, foraging areas, flight paths, and flight height mapped on aerial photographs.

## 2.3 DATA ANALYSIS

Following each survey day, data were entered for future analysis into an Excel spreadsheet. Prior to any analysis, the data were checked for accuracy and completeness.

Data were analyzed from each point count location using species richness and relative abundance as a baseline analysis for the area. Abundance was calculated as the number of observations for each species and the total for the entire survey. Species composition was generated as a list of species observed, while species diversity was the number of species identified by point count location for the entire survey period. Relative abundance was calculated as the proportion of the number of each species relative to total bird observations for the survey period (birds per survey location). Species frequency was calculated as the percent of surveys in which each species was identified.

Spatial use was investigated by comparing the abundance and species diversity by location. Abundance of each species was also grouped by point count survey location and by survey period.

---

## 2.4 INCIDENTAL OBSERVATIONS

Incidental observations included bird species that were observed or heard either outside the 100-meter survey radius from the survey point, as flyover detections, or while walking between points or to and from the surveyor's vehicle. The surveyor recorded the species and number for these incidental bird observations, provided such observations did not detract from the detection of birds within the 100-meter survey radius. Consistent with the NYSDEC protocol, detailed information on incidental observations of threatened and endangered species are included in this report. The incidental data were not used in the final quantitative analysis.

---

## 2.5 SPECIES OF CONCERN

All federally and/or state-listed threatened and endangered species and species of special concern were identified and recorded, along with their listing status, number observed, survey point, approximate location and/or flight path, and date and time observed.

Shapefiles of point count survey locations and any detections of all federally and/or state-listed threatened and endangered species were provided separately.

---

## 2.6 WEATHER CONDITIONS

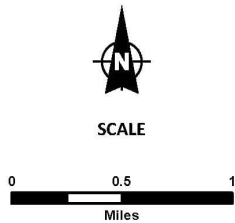
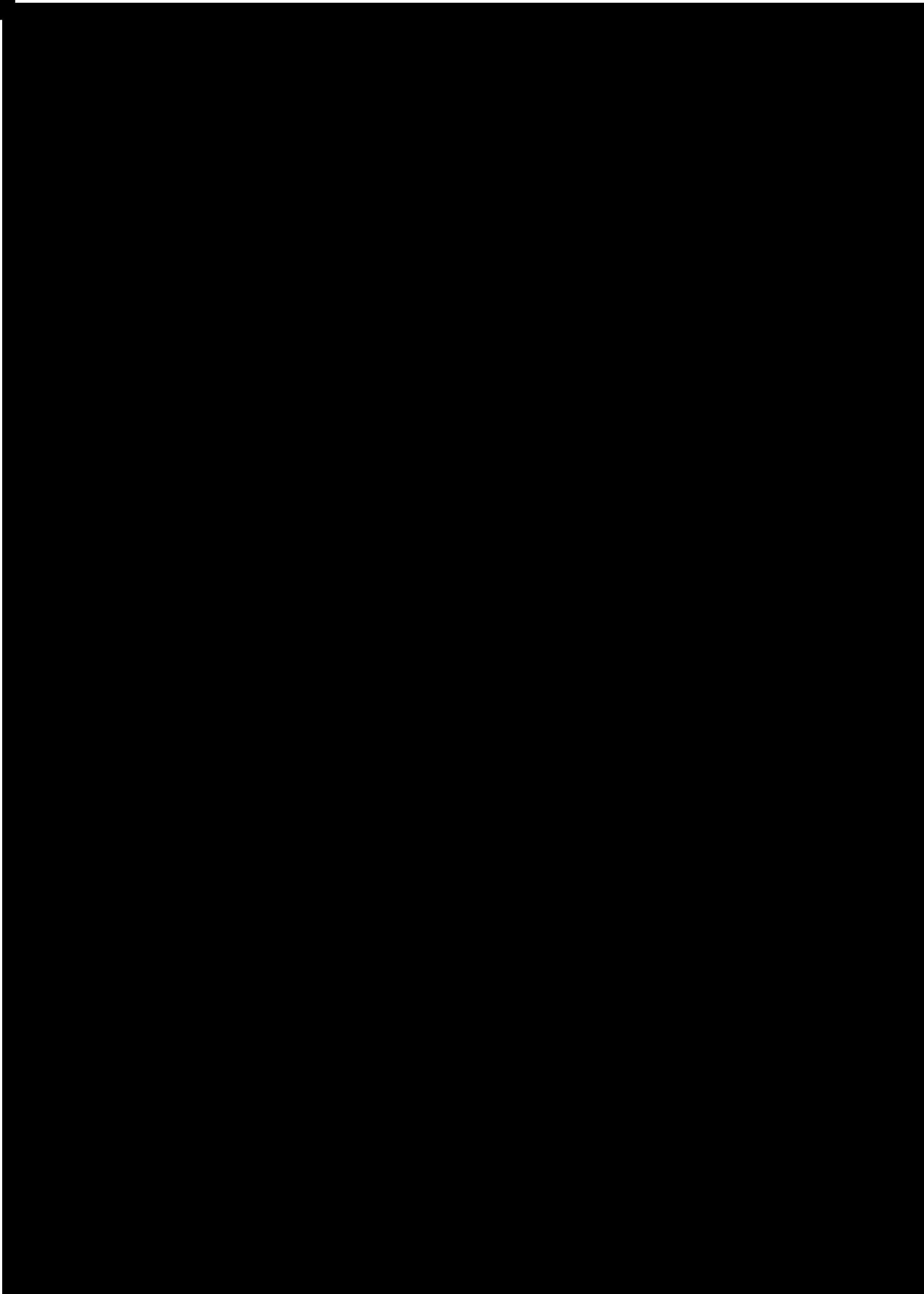
Surveys were completed during appropriate weather conditions to allow target species to be detected. Surveys were not conducted during periods of precipitation, fog, or moderate to strong winds (i.e., wind speeds greater than 12 miles per hour).

Weather data, including temperature, cloud cover, and wind speed and direction were recorded at the start of each survey. Temperature was measured with a car thermometer or the Wunderground weather application. Wind speed and wind direction were recorded using the Wunderground application. Cloud cover was estimated by the surveyor before starting the survey at each point.

---

## 2.7 QUALITY ASSURANCE AND QUALITY CONTROL

Field staff were responsible for reviewing their data forms for completeness, accuracy, and legibility at the end of each survey date. The data were regularly reviewed by the project manager for quality assurance. Irregular or potentially questionable data were flagged and discussed with field personnel.



SOURCE: ESRI 2018; ESRI 2019;  
USDA NAIP, 2019.  
© 2023 WSP

- Legend
- New Survey Point (2023)

Previous Survey Point (2022)

New 100-Meter Survey Area (2023)

Previous 100-Meter Survey Area (2022)

Areas Not Visible from Center Point

New Facility Site Parcel

Previous Facility Site Parcel

Town Boundary

County Boundary

Highway

Major Road

Street

Figure 2-1  
Breeding Bird Survey  
Survey Locations

Newport Solar Facility  
Towns of Deerfield and Newport  
Herkimer and Oneida Counties, New York

This page left blank intentionally.



### 3 RESULTS

#### 3.1 SURVEY DATA OVERVIEW

A total of 102 point count surveys (8.5 hours of survey effort) were conducted from April 19 through July 13, 2023, during which 973 detections of 50 species were recorded within the 100-meter survey radius from each survey point. Although eleven point count locations were originally identified in the Study Design, nine were surveyed during Period 1, as point B2 was located on a parcel no longer part of the Facility Site, and point B3 was in inappropriate habitat (steep, forested area with felled trees). B2 and B3 were eliminated from the study and not surveyed. Four new point count locations (B12 through B15) were added to the surveys prior to Period 2 as access was granted to new parcels. Prior to Period 4, points B5 and B6 were tilled under for row crop installation and surveys were discontinued. Prior to Periods 6, point B4, B7, and B8 were discontinued from surveys as parcels containing these points were no longer considered part of the Facility Site. Prior to Period 8, points B14 and B15 were dropped from the survey for the same reason. This left a total of 6 points (B1, B9, B10, B11, B12, and B13) surveyed from Period 8 through Period 12. A single survey at point B9 was skipped during Period 9 because the field was being actively mowed at the time of survey. Survey dates are provided in Table 3-1.

The full dataset of species, numbers, locations, dates, times, stationary versus incidental detections, and breeding codes are recorded for bird observations during all surveys and are presented in Appendix A.

**Table 3-1 Survey Dates for Breeding Bird Surveys at the Newport Solar Project in 2023**

Survey Period	Dates	Number of Points Surveyed
1	4/19/2023	9
2	4/26/2023	13
3	5/4/2023	13
4	5/12/2023	11
5	5/19/2023	11
6	5/30/2023	8
7	6/6/2023	8
8	6/13/2023	6
9	6/20/2023	5
10	6/26/2023	6
11	7/5/2023	6
12	7/13/2023	6

Note: Points B2 and B3 omitted from analysis because points not surveyed. The following points were discontinued/partially surveyed due to being tilled for row crop: B4, B5, B6, B7, B8, B14, and B15. Point B9 was skipped during survey period 9 because the field was being actively mowed that day.

## 3.2 SITE CHARACTERIZATION DATA

Out of the 13 survey points that were visited at least twice, three were classified as hayfield, one was classified as wet meadow, and two were classified as old field (see Table 3-2). Survey points were dominated by a mix of grass species and forbs. Grasses dominated at four point count survey locations and included Kentucky Bluegrass (*Poa pratensis*) and foxtail (*Setaria* sp.). Forbs dominated at two point count survey locations and included goldenrod (*Solidago* sp.) and oxeye daisy (*Leucanthemum vulgare*). Site characterization data are presented in Appendix B.

**Table 3-2 Vegetation Types at each Survey Point for Newport Solar Project in 2023**

Survey Point	Vegetation Type	Dominant Plant	Average Vegetation Height (cm) <sup>1</sup>	Date Measured	Time of Mowing
B1	Hayfield	Kentucky bluegrass	25	6/6/2023	Appears to be mowed annually.
B4	Hayfield	N/A	N/A	N/A	Dropped from surveys prior to Period 6.
B5	Row crop	N/A	N/A	N/A	Dropped from surveys prior to period 6; Tilled prior to period 4; row crop.
B6	Row crop	N/A	N/A	N/A	Dropped from surveys prior to period 6; Tilled prior to period 4; row crop.
B7	Wet meadow	N/A	N/A	N/A	Dropped from surveys prior to period 6.
B8	Wet meadow	N/A	N/A	N/A	Dropped from surveys prior to period 6.
B9	Hayfield	Foxtail	30	6/6/2023	Active mowing during period 9 visit. Approximately 80% mowed; 95% mowed prior to period 11. 100% mowed prior to period 12.
B10	Old Field	Oxeye daisy	25	6/6/2023	Appears to be regularly cleared as part of a recreational park. 60% mowed prior to period 7.
B11	Hayfield	Foxtail	25	6/6/2023	Appears to be mowed annually
B12	Wet meadow	Goldenrod sp.	25	6/6/2023	Unmanaged
B13	Old Field	Foxtail	35	6/6/2023	Unmanaged
B14	Hayfield	N/A	N/A	N/A	Dropped from surveys prior to period 8.
B15	Wet meadow	N/A	N/A	N/A	Dropped from surveys prior to period 8.

Notes: <sup>1</sup>Average of Robel pole measurements taken in four cardinal directions around the center point.

Points B2 (omitted from the Facility Site) and B3 (lack of habitat) omitted from surveys.

Points B4, B5, B6, B7, B8, B14, and B15 dropped during surveys as parcels omitted from the Facility Site.

Vegetation height was measured using a Robel pole and averaged 27.5 centimeters (cm) overall for all 6 survey points measured, with 25 cm for wet meadow vegetation at B12, averaged 30 cm for old field habitat at B10 and B13, and 26.7 cm for hayfield habitat at B1, B9 and B11. Litter depth varied across the site, averaging 3 cm for the one point with wet meadow habitat at the

center, 0.5 cm for the three points with hayfield habitat at the center, and 2.8 cm for the two points with old field habitat at the center.

Only points B9 and B10 were mowed at some point during surveys. At point B9, the hay field was actively being mowed during the Period 9 visit; it was later observed to have been approximately 80 percent mowed. It was further mowed to approximately 95 percent prior to Period 11, and 100 percent mowed prior to Period 12. Approximately 60 percent of the area around point B10 was mowed prior to Period 7 and appears to have been mowed as part of a recreational park (see Table 3-2).

### 3.3 ABUNDANCE, SPECIES COMPOSITION, SPECIES DIVERSITY, RELATIVE ABUNDANCE, AND SPECIES FREQUENCY

During the field survey, 973 observations of 50 species were recorded within the 100-meter (328-foot) radius point count survey plots. Abundance ranged from one to 259 observations per species, with an overall average of 9.5 observations per survey. The most abundantly observed species were Red-winged Blackbird (*Agelaius phoeniceus*) (259 observations; 27 percent of all bird observations); American Pipit (*Anthus rubescens*) (150 observations; 15 percent of all bird observations), Bobolink (*Dolichonyx oryzivorus*) (128 observations; 13 percent of all bird observations); and American Robin (*Turdus migratorius*) (107 observations; 11 percent of all observations). Together, these four commonly observed species accounted for approximately 66 percent of the total birds detected throughout the survey (see Table 3-3). Of note, the American Pipit is a migratory species that does not breed in the area. The observation of this species consisted of one large flock detected during one survey.

The most frequently observed species across all points were Red-winged Blackbird (63 percent frequency), Song Sparrow (*Melospiza melodia*; 37 percent), Bobolink (28 percent frequency), Common Yellowthroat (*Geothlypis trichas*; 24 percent frequency), and Savannah Sparrow (*Passerculus sandwichensis*; 18 percent frequency) (see Table 3-3).

**Table 3-3 Survey Result Statistics by Species, for the Breeding Bird Survey at Newport Solar Project from April to July 2023**

Species	Abundance (Number of Observations)	Birds per Survey	Relative Abundance (%)	Frequency of Occurrence (%)
Canada Goose	2	0.02	0.2	1.0
Mourning Dove	4	0.04	0.4	2.9
Killdeer	1	0.01	0.1	1.0
		0.03	0.3	2.9
Red-bellied Woodpecker	1	0.01	0.1	1.0
Downy Woodpecker	2	0.02	0.2	2.0
Hairy Woodpecker	1	0.01	0.1	1.0
Northern Flicker	2	0.02	0.2	2.0
American Kestrel	1	0.01	0.1	1.0

**Table 3-3 Survey Result Statistics by Species, for the Breeding Bird Survey at Newport Solar Project from April to July 2023**

Species	Abundance (Number of Observations)	Birds per Survey	Relative Abundance (%)	Frequency of Occurrence (%)
Eastern Wood-Pewee	3	0.03	0.3	2.9
Alder Flycatcher	2	0.02	0.2	1.0
Willow Flycatcher	7	0.07	0.7	5.9
Eastern Phoebe	2	0.02	0.2	2.0
Great Crested Flycatcher	3	0.03	0.3	2.9
Eastern Kingbird	10	0.10	1.0	8.8
Warbling Vireo	6	0.06	0.6	4.9
Red-eyed Vireo	5	0.05	0.5	4.9
Blue Jay	9	0.09	0.9	4.9
Tree Swallow	1	0.01	0.1	1.0
Northern Rough-winged Swallow	2	0.02	0.2	1.0
Barn Swallow	5	0.05	0.5	2.0
Black-capped Chickadee	4	0.04	0.4	2.9
House Wren	2	0.02	0.2	2.0
Eastern Bluebird	1	0.01	0.1	1.0
Veery	3	0.03	0.3	2.0
American Robin	107	1.05	11.0	6.9
Gray Catbird	9	0.09	0.9	7.8
Brown Thrasher	1	0.01	0.1	1.0
Cedar Waxwing	5	0.05	0.5	2.9
American Pipit	150	1.47	15.4	1.0
American Goldfinch	28	0.27	2.9	15.7
Eastern Towhee	1	0.01	0.1	1.0
American Tree Sparrow	3	0.03	0.3	1.0
Chipping Sparrow	2	0.02	0.2	2.0
Field Sparrow	8	0.08	0.8	4.9
Savannah Sparrow	23	0.23	2.4	17.6
Song Sparrow	63	0.62	6.5	37.3
Swamp Sparrow	9	0.09	0.9	7.8
Bobolink	128	1.25	13.2	28.4
Eastern Meadowlark	3	0.03	0.3	2.0
Baltimore Oriole	3	0.03	0.3	2.0
Red-winged Blackbird	259	2.54	26.6	62.7
Brown-headed Cowbird	2	0.02	0.2	2.0
Common Grackle	18	0.18	1.8	5.9
Tennessee Warbler	2	0.02	0.2	2.0
Common Yellowthroat	35	0.34	3.6	24.5

**Table 3-3 Survey Result Statistics by Species, for the Breeding Bird Survey at Newport Solar Project from April to July 2023**

Species	Abundance (Number of Observations)	Birds per Survey	Relative Abundance (%)	Frequency of Occurrence (%)
Yellow Warbler	17	0.17	1.7	9.8
Chestnut-sided Warbler	1	0.01	0.1	1.0
Northern Cardinal	1	0.01	0.1	1.0
Indigo Bunting	13	0.13	1.3	10.8
<b>Grand Total</b>	<b>973</b>	<b>9.54</b>	<b>100.0</b>	

### 3.4 ABUNDANCE AND SPECIES DIVERSITY BY SURVEY LOCATION

Total species diversity for the 13 survey points ranged from two species (points B5 and B6 [tilled for row crop]) to 26 species (point B12 [wet meadow]), with an average of 10.1 species across all points (see Table 3-4). The greatest number of observations per survey by point occurred at points B5 (row crop) and B6 (row crop), which averaged 33.7 and 50.3 observations per survey, respectively (see Table 3-4). The large number of observations per survey at B5 and B6 is due to a large flock of American Pipits detected during the Period 3 survey at these points. The lowest average number of observations per survey occurred at point B4 (hayfield), which averaged 4.6 observations per survey (see Table 3-4).

Appendix C provides the abundance of each species by survey location and abundance of each species by survey period.

**Table 3-4 Survey Results by Point for the Breeding Bird Survey at Newport Solar Project from April to July 2023**

Point	Habitat Type	Abundance (Number of Birds Detected)	Number of Surveys	Number of Birds Detected per Survey	Relative Abundance (%)	Species Diversity (Total Number of Species by Point)
B1	Hayfield	103	12	8.6	10.6	4
B4	Hayfield	23	5	4.6	2.4	9
B5	Row Crop	101*	3	33.7*	10.4*	2
B6	Row Crop	151*	3	50.3*	15.5*	2
B7	Wet Meadow	28	5	5.6	2.9	10
B8	Wet Meadow	25	5	5.0	2.6	10
B9	Hayfield	73	11	6.6	7.5	7
B10	Old Field	107	12	8.9	11.0	21
B11	Hayfield	100	12	8.3	10.3	5
B12	Wet Meadow	88	11	8.0	9.0	26

**Table 3-4 Survey Results by Point for the Breeding Bird Survey at Newport Solar Project from April to July 2023**

Point	Habitat Type	Abundance (Number of Birds Detected)	Number of Surveys	Number of Birds Detected per Survey	Relative Abundance (%)	Species Diversity (Total Number of Species by Point)
B13	Old Field	89	11	8.1	9.1	19
B14	Hayfield	31	6	5.2	3.2	4
B15	Wet Meadow	54	6	9.0	5.5	12
	<b>Total</b>	<b>973</b>	<b>102</b>	<b>9.5</b>	<b>100</b>	<b>50</b>
	<b>Average</b>	<b>74.8</b>	<b>7.8</b>	<b>12.4</b>	<b>-</b>	<b>10.1</b>

Notes: Points B2 and B3 omitted from analyses.

\* Numbers are reflective of a single occurrence of many American Pipits.

### 3.5 INCIDENTAL OBSERVATIONS

An additional 325 observations of 52 species were recorded outside of the 100-meter (328-foot) radius point count plots. An additional 61 observations of 5 species were recorded between survey points. There were 75 flyover detections of 18 species. Of the 70 species observed within the Facility Site, 20 species were only observed incidentally. One state-listed threatened species was detected outside of the 100-meter point count survey radius; these observations are described in Section 3.7. Data for all incidental observations are included in Appendix D.

### 3.6 SPECIES CONFIRMED AS LOCAL BREEDERS

Breeding was confirmed at the Facility Site (or near vicinity) for 11 bird species, including incidental observations. Red-winged Blackbird was the most frequently observed species exhibiting behaviors sufficient to confirm nesting, including adults carrying nesting material, food, or a fecal sac, and the presence of recently fledged young or nest with young. The most notable confirmed breeding was [REDACTED], which was observed carrying food. The other nine species confirmed as local breeders included Red-tailed Hawk (*Buteo jamaicensis*), Belted Kingfisher (*Megaceryle alcyon*), Eastern Kingbird (*Tyrannus tyrannus*), American Robin, American Goldfinch (*Spinus tristis*), Field Sparrow (*Spizella pusilla*), Savannah Sparrow, Common Grackle (*Quiscalus quiscula*), and Bobolink. See notes with field sightings in Appendix A.

3.7 SPECIES OF CONCERN

No state-listed endangered species were identified during the breeding bird surveys. One state-listed threatened species was identified at the site during the breeding bird surveys: [REDACTED]. There were [REDACTED] sightings within the 100-meter radius circular plots during the surveys. There were also one sighting of [REDACTED] beyond the 100-meter radius and five incidental observations of [REDACTED]. The highest breeding code observed for [REDACTED] was carrying food on July 13, 2023, which confirms breeding according to the New York Breeding Bird Atlas (NYSDEC 2023).

[REDACTED] were detected within 100 meters at three different point count plots (see Figure 3-1 and Table 3-5). [REDACTED] were all detected within 100 meters of [REDACTED]. [REDACTED] were detected outside the 100-meter radius point count plots: two individuals near point [REDACTED] and one individual near [REDACTED] (see Figure 3-1 and Table 3-6). [REDACTED] was observed flying and carrying food beyond the [REDACTED].

There were no New York State species of special concern identified during breeding bird surveys. Appendix E includes representative photographs of the habitat at survey points where [REDACTED] were observed during breeding bird surveys.

Table 3-5 New York State-Listed Species Identified during Breeding Bird Surveys for Newport Solar Project from April to July 2023 (inside 100-meter Point Count Plots)

Species	Listing Status	Date Identified	No. Detected	Survey Point	Vegetation Type	Breeding Bird Atlas Code	Detection Notes
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Source for Atlas Codes: NYSDEC 2023  
Key:  
ST = State-listed threatened

**Table 3-6 New York State-Listed Species Identified during Breeding Bird Surveys for Newport Solar Project from April to July 2023 (outside 100-meter Point Count Plots)**

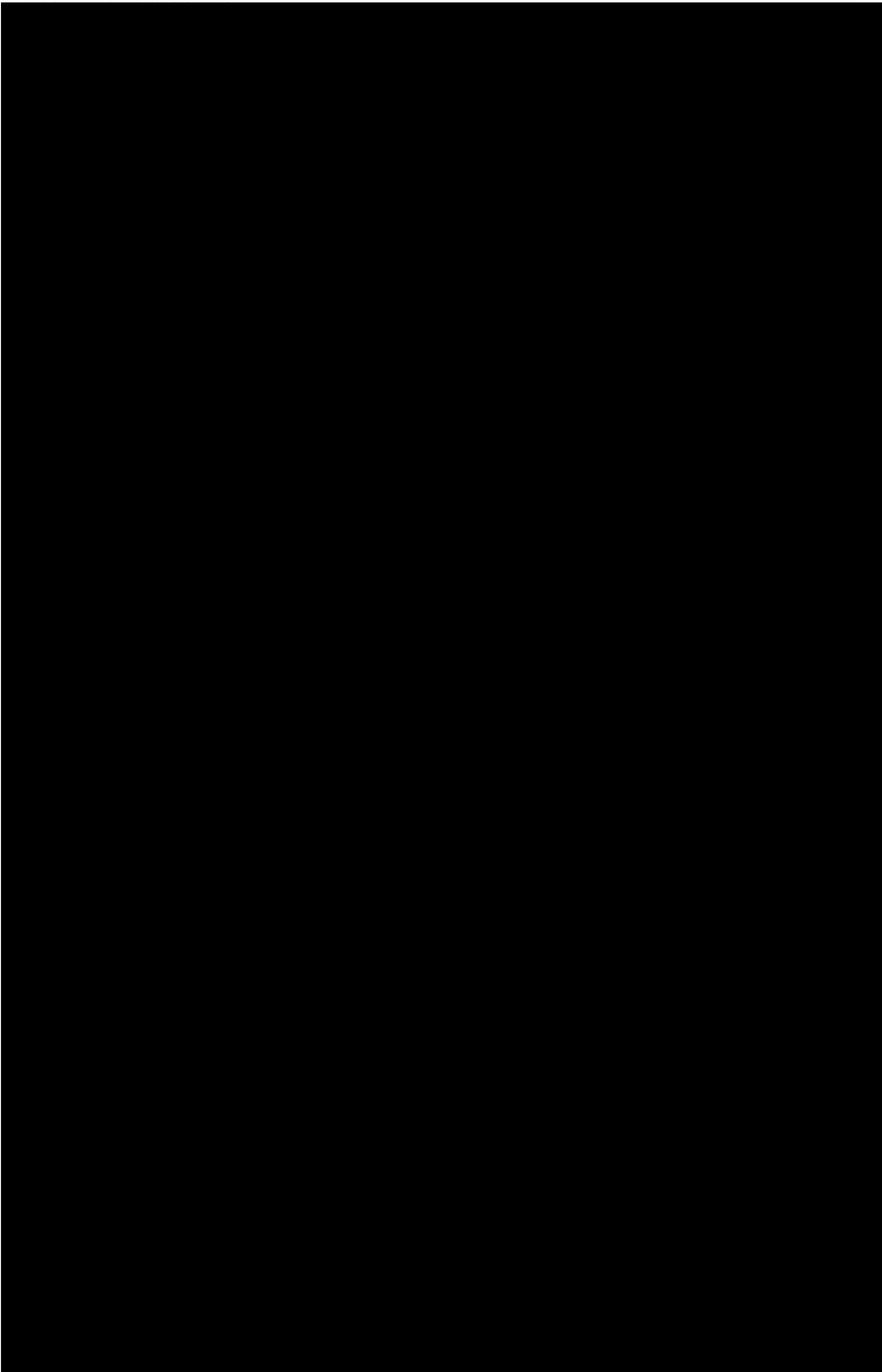
Species	Listing Status	Date Identified	No. Detected	Survey Point	Vegetation Type	Breeding Bird Atlas Code	Detection Notes
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Source for Atlas Codes: NYSDEC 2023

Key:

ST = State-listed threatened





This page left blank intentionally.

### 3.8 WEATHER CONDITIONS AND DISTURBANCES

Weather conditions were conducive to surveying. In general, temperatures slowly rose throughout each survey day, and winds tended to increase throughout each day and varied in direction. Weather conditions during the breeding bird survey period and days prior to surveys are noted in Appendix F.

Disturbance events were rare but may have affected some surveys. On June 6, 2023, the presence of smoke from the Canadian wildfires was noted by surveyors but did not impact surveying effort for that day. In other cases, the surveyor resolved potential disruptions by waiting for the disturbance or weather event to pass or returning to the survey point at a later time. The exception is point B9 was not able to be surveyed during the Period 9 visit due to active mowing activity in the field. Inclement weather was not a factor.

This page left blank intentionally.

## 4 DISCUSSION

During the field survey, one New York State-listed threatened grassland nesting bird species were observed at the Facility Site: [REDACTED]. There was a total of nine observations of [REDACTED]. [REDACTED] observations were made [REDACTED]. [REDACTED] on [REDACTED] a [REDACTED] was observed flying and carrying food beyond [REDACTED]. Carrying food is considered confirmed evidence of nesting birds according to the New York Breeding Bird Atlas, although a nest location or observation of young was not detected. The location and flight paths of all state-listed threatened and species of special concern species are presented on Figure 3-1.

[REDACTED] with ground vegetation, including wetlands, drained wetlands, and upland habitats (Smith et al. 2020). [REDACTED]

[REDACTED] but exact nest sites are not reused (Smith et al. 2020).

WSP implemented the NYSDEC *Survey Protocol for State-Listed Breeding Grassland Bird Species*. WSP adapted the survey schedule to meet the protocol, including conducting 12 survey periods (two in April, four in May, four in June, and two in July) due to the documented presence of [REDACTED] within and adjacent to the Facility Site during the 2022 breeding bird surveys. The approximately weekly surveys at 13 survey points between April 19, 2023, and July 13, 2023 (not all points were surveyed each survey period due to agricultural use or parcels no longer part of the Facility Site), provided thorough coverage of the Facility Site throughout the 2023 breeding season. The results of the combined survey effort suggest that more comprehensive studies are not necessary to adequately assess the potential for the Facility to affect endangered or threatened grassland nesting bird species.

This page left blank intentionally.

## 5 REFERENCES

New York State Department of Environmental Conservation (NYSDEC). 2022. *Survey Protocol for State-listed Breeding Grassland Bird Species*. Prepared by New York State Department of Environmental Conservation.

New York State Department of Environmental Conservation (NYSDEC). 2023. “Breeding Codes.” The Third Atlas of Breeding Birds in New York State [Online]. Atlas III data hosted through an eBird portal. Accessed online at: <https://ebird.org/atlasny/about/breeding-codes>. Accessed on July 19, 2023.

U.S. Geological Survey (USGS). 2019. NLCD 2019 Land Cover Conterminous United States [Raster geospatial data]. Updated June 2022. Accessed online at: <https://www.mrlc.gov/data>.

WSP USA, Inc. (WSP). 2023. *Avian Study Plan for the Proposed Newport Solar Project, Towns of Marcy, Newport, Deerfield, and Trenton, Herkimer and Oneida Counties, New York*. March 2023.

This page left blank intentionally.



# APPENDIX

## A Full Survey Results

Note: The full breeding bird survey dataset uses the data form provided by NYSDEC as part of the 2022 breeding bird survey protocol. The “Number Observed” field for records with “Stationary” entered for Protocol includes all birds recorded during the five-minute surveys. For a given species during a survey this number includes birds within the 100-meter survey radius, outside the 100-meter survey radius, and flyover detections. Records with “Incidental” for Protocol represent birds recorded between survey points.

It is noted that entering reportable data into the New York State Breeding Bird Atlas via eBird is an optional data management tool. However, Boralex prefers to not enter data into eBird at this time.

This page left blank intentionally.

**REDACTED – ORES MATTER NO. 23-00058 – NEWPORT DEERFIELD SOLAR LLC**

**Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023**

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Eastern Meadowlark	2	2 EAME observed in the point as I arrived	B4	43.23212	-75.1522	4/19/2023	7:00	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	7		B4	43.23212	-75.1522	4/19/2023	7:00	NY	US	Stationary	1	5	N	
American Robin	1		B4	43.23212	-75.1522	4/19/2023	7:00	NY	US	Stationary	1	5	N	
Song Sparrow	1		B4	43.23212	-75.1522	4/19/2023	7:00	NY	US	Stationary	1	5	N	
American Robin	100		B5	43.2291	-75.1504	4/19/2023	7:30	NY	US	Stationary	1	5	N	H
Northern Cardinal	1		B5	43.2291	-75.1504	4/19/2023	7:30	NY	US	Stationary	1	5	N	
American Crow	1		B5	43.2291	-75.1504	4/19/2023	7:30	NY	US	Stationary	1	5	N	
Song Sparrow	1		B5	43.2291	-75.1504	4/19/2023	7:30	NY	US	Stationary	1	5	N	H
American Crow	2		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Stationary	1	5	N	
American Robin	50		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Incidental	1	0	N	
Brown Creeper	1		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Stationary	1	5	N	
Wood Duck	1		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Stationary	1	5	N	
Northern Cardinal	1		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Stationary	1	5	N	
Black-capped Chickadee	2		B6	43.22615	-75.1506	4/19/2023	7:44	NY	US	Stationary	1	5	N	
American Crow	2		B7	43.22335	-75.1736	4/19/2023	8:15	NY	US	Stationary	1	5	N	
Red-winged Blackbird	10		B7	43.22335	-75.1736	4/19/2023	8:15	NY	US	Stationary	1	5	N	
American Crow	1		B8	43.22545	-75.1748	4/19/2023	8:27	NY	US	Stationary	1	5	N	
Red-winged Blackbird	2		B8	43.22545	-75.1748	4/19/2023	8:27	NY	US	Stationary	1	5	N	H
Swamp Sparrow	2		B8	43.22545	-75.1748	4/19/2023	8:27	NY	US	Stationary	1	5	N	H
Hairy Woodpecker	1		B8	43.22545	-75.1748	4/19/2023	8:27	NY	US	Stationary	1	5	N	H
American Robin	5		B2	43.18709	-75.1331	4/19/2023	9:04	NY	US	Stationary	1	5	N	
Song Sparrow	3		B2	43.18709	-75.1331	4/19/2023	9:04	NY	US	Stationary	1	5	N	
European Starling	2		B2	43.18709	-75.1331	4/19/2023	9:04	NY	US	Stationary	1	5	N	
American Crow	4		B2	43.18709	-75.1331	4/19/2023	9:04	NY	US	Stationary	1	5	N	
Song Sparrow	1					4/19/2023	9:27	NY	US	Stationary	1	5	N	
						4/19/2023	9:48	NY	US	Stationary	1	5	N	H
American Woodcock	1					4/19/2023	9:48	NY	US	Stationary	1	5	N	
Red-winged Blackbird	1					4/19/2023	9:48	NY	US	Stationary	1	5	N	
Red-winged Blackbird	3		B1	43.18892	-75.0669	4/19/2023	9:58	NY	US	Stationary	1	5	N	
House Sparrow	1		B1	43.18892	-75.0669	4/19/2023	9:58	NY	US	Stationary	1	5	N	
Eastern Meadowlark	1		B9	43.20053	-75.0594	4/19/2023	10:21	NY	US	Stationary	1	5	N	H
Turkey Vulture	6		B9	43.20053	-75.0594	4/19/2023	10:21	NY	US	Stationary	1	5	N	
American Crow	1		B9	43.20053	-75.0594	4/19/2023	10:21	NY	US	Stationary	1	5	N	
Red-winged Blackbird	2		B9	43.20053	-75.0594	4/19/2023	10:21	NY	US	Stationary	1	5	N	
Canada Goose	2		B9	43.20053	-75.0594	4/19/2023	10:21	NY	US	Stationary	1	5	N	
Savannah Sparrow	1		B10	43.2048	-75.0611	4/19/2023	10:31	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B10	43.2048	-75.0611	4/19/2023	10:31	NY	US	Stationary	1	5	N	
American Crow	3		B10	43.2048	-75.0611	4/19/2023	10:31	NY	US	Stationary	1	5	N	
Common Grackle	2		B10	43.2048	-75.0611	4/19/2023	10:31	NY	US	Stationary	1	5	N	H
						4/19/2023	10:10	NY	US	Incidental	1	0	N	P

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Red-winged Blackbird	2		B10	43.2048	-75.0611	4/26/2023	7:00	NY	US	Stationary	1	5	N	S
American Tree Sparrow	3		B10	43.2048	-75.0611	4/26/2023	7:00	NY	US	Stationary	1	5	N	F
Eastern Meadowlark	1		B10	43.2048	-75.0611	4/26/2023	7:00	NY	US	Stationary	1	5	N	
American Crow	2	Observed carrying nesting material	B10	43.2048	-75.0611	4/26/2023	7:00	NY	US	Stationary	1	5	N	NB
Great Horned Owl	1	Calling from woods to the northeast	B9	43.20053	-75.0594	4/26/2023	7:12	NY	US	Stationary	1	5	N	
Savannah Sparrow	3		B11	43.18745	-75.0696	4/26/2023	7:36	NY	US	Stationary	1	5	N	S
Eastern Meadowlark	1		B11	43.18745	-75.0696	4/26/2023	7:36	NY	US	Stationary	1	5	N	
Red-winged Blackbird	3		B11	43.18745	-75.0696	4/26/2023	7:36	NY	US	Stationary	1	5	N	S
Eastern Meadowlark	1		B1	43.18892	-75.0669	4/26/2023	7:47	NY	US	Incidental	1	0	N	
Savannah Sparrow	1		B1	43.18892	-75.0669	4/26/2023	7:47	NY	US	Incidental	1	0	N	
Blue Jay	3		B15	43.17235	-75.0586	4/26/2023	8:12	NY	US	Stationary	1	5	N	H
Brown-headed Cowbird	3		B15	43.17235	-75.0586	4/26/2023	8:12	NY	US	Stationary	1	5	N	
American Goldfinch	1		B15	43.17235	-75.0586	4/26/2023	8:12	NY	US	Stationary	1	5	N	
Song Sparrow	2		B15	43.17235	-75.0586	4/26/2023	8:12	NY	US	Stationary	1	5	N	H
American Kestrel	1	SE portion of point and perched in trees to the east	B14	43.1756	-75.0659	4/26/2023	8:25	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	4		B14	43.1756	-75.0659	4/26/2023	8:25	NY	US	Stationary	1	5	N	S
European Starling	1		B14	43.1756	-75.0659	4/26/2023	8:25	NY	US	Stationary	1	5	N	
Canada Goose	2		B14	43.1756	-75.0659	4/26/2023	8:25	NY	US	Stationary	1	5	N	
American Kestrel	2	1 M and 1 F observed flying from the treeline east of the points in this area between B4, B5	B6	43.22615	-75.1506	4/26/2023	9:07	NY	US	Incidental	1	0	N	
Killdeer	1		B6	43.22615	-75.1506	4/26/2023	9:07	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	1		B5	43.2291	-75.1504	4/26/2023	9:18	NY	US	Stationary	1	5	N	
Northern Flicker	1		B4	43.23212	-75.1522	4/26/2023	9:31	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	1		B4	43.23212	-75.1522	4/26/2023	9:31	NY	US	Stationary	1	5	N	S
Eastern Phoebe	1		B7	43.22335	-75.1736	4/26/2023	9:46	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	1		B7	43.22335	-75.1736	4/26/2023	9:46	NY	US	Stationary	1	5	N	S
Song Sparrow	3		B7	43.22335	-75.1736	4/26/2023	9:46	NY	US	Stationary	1	5	N	S
American Kestrel	1	Male observed perched in trees between B7, B8	B8	43.22545	-75.1748	4/26/2023	9:55	NY	US	Incidental	1	0	N	
American Goldfinch	2		B8	43.22545	-75.1748	4/26/2023	9:55	NY	US	Stationary	1	5	N	
Swamp Sparrow	1		B8	43.22545	-75.1748	4/26/2023	9:55	NY	US	Stationary	1	5	N	s
Red-winged Blackbird	1		B13	43.17627	-75.0723	4/26/2023	10:51	NY	US	Stationary	1	5	N	S
Field Sparrow	1					4/26/2023	11:09	NY	US	Stationary	1	5	N	S
Eastern Phoebe	1					4/26/2023	11:09	NY	US	Stationary	1	5	N	H
Black-capped Chickadee	1					4/26/2023	11:09	NY	US	Stationary	1	5	N	H
						5/4/2023	6:25	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	2					5/4/2023	6:25	NY	US	Stationary	1	5	N	S
Wilson's Snipe	1					5/4/2023	6:25	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Savannah Sparrow	1					5/4/2023	6:25	NY	US	Stationary	1	5	N	S
Swamp Sparrow	1					5/4/2023	6:25	NY	US	Stationary	1	5	N	S
Song Sparrow	3					5/4/2023	6:25	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	2		B14	43.1756	-75.0659	5/4/2023	6:40	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B13	43.17627	-75.0723	5/4/2023	6:57	NY	US	Stationary	1	5	N	S
Song Sparrow	1		B13	43.17627	-75.0723	5/4/2023	6:57	NY	US	Stationary	1	5	N	S
Common Raven	1		B13	43.17627	-75.0723	5/4/2023	6:57	NY	US	Stationary	1	5	N	
Field Sparrow	2		B12	43.17693	-75.0789	5/4/2023	7:22	NY	US	Stationary	1	5	N	S
Song Sparrow	1		B12	43.17693	-75.0789	5/4/2023	7:22	NY	US	Stationary	1	5	N	S
Eastern Towhee	1		B12	43.17693	-75.0789	5/4/2023	7:22	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	7		B11	43.18745	-75.0696	5/4/2023	7:56	NY	US	Stationary	1	5	N	T
Savannah Sparrow	1		B11	43.18745	-75.0696	5/4/2023	7:56	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	3		B1	43.18892	-75.0669	5/4/2023	8:06	NY	US	Stationary	1	5	N	
Red-tailed Hawk	1		B1	43.18892	-75.0669	5/4/2023	8:06	NY	US	Stationary	1	5	N	CN
Eastern Meadowlark	1	Observed in the field west of the entry road to B9	B9	43.20053	-75.0594	5/4/2023	8:35	NY	US	Incidental	1	0	N	
Canada Goose	2		B9	43.20053	-75.0594	5/4/2023	8:35	NY	US	Stationary	1	5	N	H
Mallard	2		B9	43.20053	-75.0594	5/4/2023	8:35	NY	US	Stationary	1	5	N	
Red-winged Blackbird	3		B10	43.2048	-75.0611	5/4/2023	8:56	NY	US	Stationary	1	5	N	S
Common Grackle	5		B10	43.2048	-75.0611	5/4/2023	8:56	NY	US	Stationary	1	5	N	S
American Robin	1		B10	43.2048	-75.0611	5/4/2023	8:56	NY	US	Stationary	1	5	N	H
Song Sparrow	1		B10	43.2048	-75.0611	5/4/2023	8:56	NY	US	Stationary	1	5	N	T
Red-winged Blackbird	2		B7	43.22335	-75.1736	5/4/2023	9:31	NY	US	Stationary	1	5	N	S
American Kestrel	1	Between B7 and B8, foraging and perched	B7	43.22335	-75.1736	5/4/2023	9:31	NY	US	Stationary	1	5	N	
American Goldfinch	3		B8	43.22545	-75.1748	5/4/2023	9:41	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B8	43.22545	-75.1748	5/4/2023	9:41	NY	US	Stationary	1	5	N	
Turkey Vulture	1		B8	43.22545	-75.1748	5/4/2023	9:41	NY	US	Stationary	1	5	N	
Swamp Sparrow	1		B8	43.22545	-75.1748	5/4/2023	9:41	NY	US	Stationary	1	5	N	S
Eastern Meadowlark	1		B4	43.23212	-75.1522	5/4/2023	10:00	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	1		B4	43.23212	-75.1522	5/4/2023	10:00	NY	US	Stationary	1	5	N	
American Pipit	100		B5	43.2291	-75.1504	5/4/2023	10:13	NY	US	Stationary	1	5	N	
American Pipit	150		B6	43.22615	-75.1506	5/4/2023	10:25	NY	US	Stationary	1	5	N	H
American Kestrel	1		B6	43.22615	-75.1506	5/4/2023	10:25	NY	US	Stationary	1	5	N	H
Warbling Vireo	1		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	S
Yellow Warbler	2		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	4		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	H
Field Sparrow	2		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	CN
Song Sparrow	1		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	S
Common Yellowthroat	1		B7	43.22335	-75.1736	5/12/2023	7:15	NY	US	Stationary	1	5	N	S
Song Sparrow	1		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	H
Yellow Warbler	1		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	S
American Goldfinch	2		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	H

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Swamp Sparrow	1		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	H
Warbling Vireo	1		B8	43.22545	-75.1748	5/12/2023	7:34	NY	US	Stationary	1	5	N	S
Black-capped Chickadee	1		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	S
Common Yellowthroat	1		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	P
Tree Swallow	1		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	H
Bobolink	4		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	H
Eastern Meadowlark	1		B4	43.23212	-75.1522	5/12/2023	8:05	NY	US	Stationary	1	5	N	S
American Robin	1		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	6		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	CF
Common Grackle	4		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	H
Yellow Warbler	2		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	S
Brown Thrasher	1		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	H
Blue Jay	1		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	
Barn Swallow	1		B10	43.2048	-75.0611	5/12/2023	8:26	NY	US	Stationary	1	5	N	
Bobolink	8					5/12/2023	8:40	NY	US	Stationary	1	5	N	P
Savannah Sparrow	1					5/12/2023	8:40	NY	US	Stationary	1	5	N	S
						5/12/2023	8:40	NY	US	Stationary	1	5	N	H
Mourning Dove	1					5/12/2023	8:40	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	1					5/12/2023	8:40	NY	US	Stationary	1	5	N	H
Common Grackle	1					5/12/2023	8:40	NY	US	Stationary	1	5	N	
Bobolink	6		B1	43.18892	-75.0669	5/12/2023	9:06	NY	US	Stationary	1	5	N	H
Red-tailed Hawk	1	Nest present	B1	43.18892	-75.0669	5/12/2023	9:06	NY	US	Stationary	1	5	N	
Savannah Sparrow	1		B11	43.18745	-75.0696	5/12/2023	9:18	NY	US	Stationary	1	5	N	S
Red-winged Blackbird	2		B11	43.18745	-75.0696	5/12/2023	9:18	NY	US	Stationary	1	5	N	T
Barn Swallow	1	Foraging	B11	43.18745	-75.0696	5/12/2023	9:18	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	3		B13	43.17627	-75.0723	5/12/2023	9:40	NY	US	Stationary	1	5	N	H
American Goldfinch	1		B13	43.17627	-75.0723	5/12/2023	9:40	NY	US	Stationary	1	5	N	H
Song Sparrow	1		B13	43.17627	-75.0723	5/12/2023	9:40	NY	US	Stationary	1	5	N	S
Yellow Warbler	2		B12	43.17693	-75.0789	5/12/2023	9:56	NY	US	Stationary	1	5	N	H
Common Yellowthroat	2		B12	43.17693	-75.0789	5/12/2023	9:56	NY	US	Stationary	1	5	N	H
Great Crested Flycatcher	1		B12	43.17693	-75.0789	5/12/2023	9:56	NY	US	Stationary	1	5	N	H
Black-capped Chickadee	2		B12	43.17693	-75.0789	5/12/2023	9:56	NY	US	Stationary	1	5	N	H
Song Sparrow	1		B12	43.17693	-75.0789	5/12/2023	9:56	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	6		B14	43.1756	-75.0659	5/12/2023	10:14	NY	US	Stationary	1	5	N	P
American Robin	1		B14	43.1756	-75.0659	5/12/2023	10:14	NY	US	Stationary	1	5	N	H
American Kestrel	2		B15	43.17235	-75.0586	5/12/2023	10:24	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	5		B15	43.17235	-75.0586	5/12/2023	10:24	NY	US	Stationary	1	5	N	P
Song Sparrow	2		B15	43.17235	-75.0586	5/12/2023	10:24	NY	US	Stationary	1	5	N	P
Common Yellowthroat	1		B15	43.17235	-75.0586	5/12/2023	10:24	NY	US	Stationary	1	5	N	S
Willow Flycatcher	2		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	S



Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Red-winged Blackbird	6		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	CF
Savannah Sparrow	2		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	M
Song Sparrow	2		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	A
Common Yellowthroat	2		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	M
American Goldfinch	2		B15	43.17235	-75.0586	5/19/2023	6:55	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	4		B14	43.1756	-75.0659	5/19/2023	7:16	NY	US	Stationary	1	5	N	A
American Goldfinch	1		B14	43.1756	-75.0659	5/19/2023	7:16	NY	US	Stationary	1	5	N	
American Goldfinch	2		B13	43.17627	-75.0723	5/19/2023	7:24	NY	US	Stationary	1	5	N	P
Red-winged Blackbird	4		B13	43.17627	-75.0723	5/19/2023	7:24	NY	US	Stationary	1	5	N	CF
Bobolink	2		B13	43.17627	-75.0723	5/19/2023	7:24	NY	US	Stationary	1	5	N	C
Savannah Sparrow	1		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	S
Common Yellowthroat	2		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	S7
American Goldfinch	2		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	A
Eastern Kingbird	2		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	CF
Gray Catbird	1		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	S
Song Sparrow	1		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	1		B12	43.17693	-75.0789	5/19/2023	7:50	NY	US	Stationary	1	5	N	
Bobolink	5		B11	43.18745	-75.0696	5/19/2023	8:24	NY	US	Stationary	1	5	N	S7
Savannah Sparrow	1		B11	43.18745	-75.0696	5/19/2023	8:24	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	5		B11	43.18745	-75.0696	5/19/2023	8:24	NY	US	Stationary	1	5	N	T
Turkey Vulture	1		B11	43.18745	-75.0696	5/19/2023	8:24	NY	US	Stationary	1	5	N	
Bobolink	4		B1	43.18892	-75.0669	5/19/2023	8:40	NY	US	Stationary	1	5	N	C
Savannah Sparrow	1		B1	43.18892	-75.0669	5/19/2023	8:40	NY	US	Stationary	1	5	N	N
Red-winged Blackbird	8		B1	43.18892	-75.0669	5/19/2023	8:40	NY	US	Stationary	1	5	N	CF
Red-tailed Hawk	1		B1	43.18892	-75.0669	5/19/2023	8:40	NY	US	Stationary	1	5	N	
Bobolink	10		B9	43.20053	-75.0594	5/19/2023	9:11	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	10		B9	43.20053	-75.0594	5/19/2023	9:11	NY	US	Stationary	1	5	N	A
Barn Swallow	1		B9	43.20053	-75.0594	5/19/2023	9:11	NY	US	Stationary	1	5	N	
Warbling Vireo	1		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	S7
Common Grackle	5		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	FL
Red-winged Blackbird	5		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	A
Eastern Kingbird	1		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	P
Song Sparrow	1		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	2		B10	43.2048	-75.0611	5/19/2023	9:29	NY	US	Stationary	1	5	N	S7
Bobolink	4		B4	43.23212	-75.1522	5/19/2023	9:58	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	1		B4	43.23212	-75.1522	5/19/2023	9:58	NY	US	Stationary	1	5	N	S7
Barn Swallow	8		B4	43.23212	-75.1522	5/19/2023	9:58	NY	US	Stationary	1	5	N	H
Eastern Kingbird	2		B4	43.23212	-75.1522	5/19/2023	9:58	NY	US	Stationary	1	5	N	
Eastern Meadowlark	1		B4	43.23212	-75.1522	5/19/2023	9:58	NY	US	Stationary	1	5	N	
Warbling Vireo	2		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	S7
Tennessee Warbler	1		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	S
Field Sparrow	2		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	CN

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Willow Flycatcher	1		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	S
Yellow Warbler	2		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	S7
Song Sparrow	1		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	S7
Eastern Kingbird	1		B7	43.22335	-75.1736	5/19/2023	10:14	NY	US	Stationary	1	5	N	H
Baltimore Oriole	2		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	S
Yellow Warbler	2		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	S7
American Goldfinch	2		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	
Tennessee Warbler	1		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	S
Eastern Kingbird	1		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	H
Swamp Sparrow	1		B8	43.22545	-75.1748	5/19/2023	10:28	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	3		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	T
Willow Flycatcher	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	S7
Common Grackle	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	T
Red-eyed Vireo	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	
Song Sparrow	2		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	P
Warbling Vireo	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	S7
American Redstart	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	
Yellow Warbler	2		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	S7
American Robin	1		B10	43.2048	-75.0611	5/30/2023	7:05	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	6		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	T
Bobolink	5		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	T
Red-eyed Vireo	1		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	
Yellow Warbler	1		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	
American Robin	1		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	
Tufted Titmouse	1		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	
Gray Catbird	1		B9	43.20053	-75.0594	5/30/2023	7:28	NY	US	Stationary	1	5	N	
Bobolink	5		B1	43.18892	-75.0669	5/30/2023	8:01	NY	US	Stationary	1	5	N	T
Red-winged Blackbird	7		B1	43.18892	-75.0669	5/30/2023	8:01	NY	US	Stationary	1	5	N	T
Pileated Woodpecker	1		B1	43.18892	-75.0669	5/30/2023	8:01	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B1	43.18892	-75.0669	5/30/2023	8:01	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1		B1	43.18892	-75.0669	5/30/2023	8:01	NY	US	Stationary	1	5	N	
Bobolink	4		B11	43.18745	-75.0696	5/30/2023	8:14	NY	US	Stationary	1	5	N	T
Red-winged Blackbird	3		B11	43.18745	-75.0696	5/30/2023	8:14	NY	US	Stationary	1	5	N	T
Song Sparrow	1		B11	43.18745	-75.0696	5/30/2023	8:14	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B11	43.18745	-75.0696	5/30/2023	8:14	NY	US	Stationary	1	5	N	
Common Yellowthroat	2		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	S7
Alder Flycatcher	2		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	S7
Song Sparrow	2		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	A
Willow Flycatcher	1		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	
Gray Catbird	1		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	A
Red-eyed Vireo	1		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	S



Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Indigo Bunting	2		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	S
Brown-headed Cowbird	1		B12	43.17693	-75.0789	5/30/2023	8:50	NY	US	Stationary	1	5	N	H
Bobolink	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Song Sparrow	3		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	P
Common Yellowthroat	2		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	S7
House Wren	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	S
Indigo Bunting	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	S
Great Crested Flycatcher	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Black-capped Chickadee	2		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Alder Flycatcher	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Willow Flycatcher	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Baltimore Oriole	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	H
Northern Cardinal	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Eastern Wood-Pewee	1		B13	43.17627	-75.0723	5/30/2023	9:19	NY	US	Stationary	1	5	N	
Bobolink	4		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	T
Eastern Wood-Pewee	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
Common Yellowthroat	2		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	S7
Tufted Titmouse	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
Warbling Vireo	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
Brown-headed Cowbird	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
American Goldfinch	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
Veery	1		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	
Red-winged Blackbird	6		B14	43.1756	-75.0659	5/30/2023	9:44	NY	US	Stationary	1	5	N	T
Song Sparrow	2		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	N
Red-winged Blackbird	2		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	A
American Crow	1		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	
Willow Flycatcher	1		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	S7
Black-capped Chickadee	1		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	
Blue Jay	1		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	
American Goldfinch	1		B15	43.17235	-75.0586	5/30/2023	9:56	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	N
Willow Flycatcher	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	A
Song Sparrow	2		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	A
Yellow Warbler	2		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	S7
American Goldfinch	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	A
Common Yellowthroat	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	S7
Red-eyed Vireo	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	S7
Swamp Sparrow	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	
Field Sparrow	1		B15	43.17235	-75.0586	6/6/2023	6:53	NY	US	Stationary	1	5	N	
Red-winged Blackbird	6		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	NY
Alder Flycatcher	3		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Willow Flycatcher	1		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	
Wood Thrush	1		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	
Yellow Warbler	1		B14	43.1756	-75.0659	6/6/2023	7:11	NY	US	Stationary	1	5	N	
Willow Flycatcher	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	S7
Indigo Bunting	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	A
Alder Flycatcher	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	
American Goldfinch	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	S7
Rose-breasted Grosbeak	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	S7
Blue Jay	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	
Northern Cardinal	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	
Gray Catbird	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	
Song Sparrow	2		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	A
Great Crested Flycatcher	1		B13	43.17627	-75.0723	6/6/2023	7:35	NY	US	Stationary	1	5	N	S
Veery	3		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
Song Sparrow	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
Yellow Warbler	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
Indigo Bunting	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
American Crow	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	S7
European Starling	2		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	
Alder Flycatcher	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	
Blue Jay	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	A
Northern Cardinal	1		B12	43.17693	-75.0789	6/6/2023	7:56	NY	US	Stationary	1	5	N	A
Bobolink	4		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	T
Savannah Sparrow	1		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	N
Red-winged Blackbird	7		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	A
Common Yellowthroat	2		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	
European Starling	3		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	
Red-bellied Woodpecker	1		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	
American Goldfinch	1		B11	43.18745	-75.0696	6/6/2023	8:33	NY	US	Stationary	1	5	N	
Bobolink	4		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	A
Savannah Sparrow	2		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	3		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	FL
Red-eyed Vireo	1		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	
American Robin	1		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	
American Crow	1		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	
Red-tailed Hawk	1		B1	43.18892	-75.0669	6/6/2023	8:45	NY	US	Stationary	1	5	N	
Bobolink	6		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	T

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Savannah Sparrow	1		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	N
Red-winged Blackbird	7		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	T
Chestnut-sided Warbler	1		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	
Yellow Warbler	1		B9	43.20053	-75.0594	6/6/2023	9:17	NY	US	Stationary	1	5	N	
Red-winged Blackbird	4		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	A
Red-eyed Vireo	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
American Crow	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Willow Flycatcher	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Song Sparrow	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	S7
Common Grackle	2		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Eastern Wood-Pewee	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Yellow Warbler	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
American Robin	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	H
Mourning Dove	1		B10	43.2048	-75.0611	6/6/2023	9:38	NY	US	Stationary	1	5	N	
Red-winged Blackbird	4		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	A
Brown Thrasher	1		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	
Northern Rough-winged S	2		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	H
American Goldfinch	2		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	FC
Least Flycatcher	1		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	
Song Sparrow	2		B10	43.2048	-75.0611	6/13/2023	8:15	NY	US	Stationary	1	5	N	A
Bobolink	8		B9	43.20053	-75.0594	6/13/2023	8:32	NY	US	Stationary	1	5	N	T
Red-winged Blackbird	5		B9	43.20053	-75.0594	6/13/2023	8:32	NY	US	Stationary	1	5	N	T
American Crow	3		B9	43.20053	-75.0594	6/13/2023	8:32	NY	US	Stationary	1	5	N	
Bobolink	7		B1	43.18892	-75.0669	6/13/2023	9:01	NY	US	Stationary	1	5	N	CF
Savannah Sparrow	2		B1	43.18892	-75.0669	6/13/2023	9:01	NY	US	Stationary	1	5	N	FY
Red-winged Blackbird	5		B1	43.18892	-75.0669	6/13/2023	9:01	NY	US	Stationary	1	5	N	A
Barn Swallow	1		B1	43.18892	-75.0669	6/13/2023	9:01	NY	US	Stationary	1	5	N	
Bobolink	1		B11	43.18745	-75.0696	6/13/2023	9:11	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	10		B11	43.18745	-75.0696	6/13/2023	9:11	NY	US	Stationary	1	5	N	A
Barn Swallow	1		B11	43.18745	-75.0696	6/13/2023	9:11	NY	US	Stationary	1	5	N	
Bobolink	2		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	T
Chipping Sparrow	1		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	S
Willow Flycatcher	1		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	A
Common Yellowthroat	2		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	S7
Song Sparrow	2		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	A
Alder Flycatcher	1		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	
American Goldfinch	2		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	A
Gray Catbird	1		B13	43.17627	-75.0723	6/13/2023	9:44	NY	US	Stationary	1	5	N	
American Goldfinch	2		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Eastern Wood-Pewee	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	S7
Indigo Bunting	2		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	S7
Great Crested Flycatcher	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	
Common Yellowthroat	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	S7
Eastern Kingbird	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	S7
Mourning Dove	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	H
Yellow Warbler	1		B12	43.17693	-75.0789	6/13/2023	10:05	NY	US	Stationary	1	5	N	S7
Bobolink	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	S7
Chipping Sparrow	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	S7
House Wren	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	
Song Sparrow	2		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	T
Veery	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	
Black-capped Chickadee	2		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	
Indigo Bunting	1		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	
Red-winged Blackbird	2		B13	43.17627	-75.0723	6/20/2023	8:15	NY	US	Stationary	1	5	N	S7
Bobolink	2		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	A
Indigo Bunting	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	
Blue Jay	2		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	A
Song Sparrow	2		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	A
Willow Flycatcher	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	
American Robin	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	
Alder Flycatcher	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	
Great Crested Flycatcher	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	H
Eastern Kingbird	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	A
Chestnut-sided Warbler	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	S
Wood Thrush	1		B12	43.17693	-75.0789	6/20/2023	8:34	NY	US	Stationary	1	5	N	
Bobolink	7		B1	43.18892	-75.0669	6/20/2023	9:12	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	5		B1	43.18892	-75.0669	6/20/2023	9:12	NY	US	Stationary	1	5	N	A
Red-eyed Vireo	1		B1	43.18892	-75.0669	6/20/2023	9:12	NY	US	Stationary	1	5	N	
Barn Swallow	1	Foraging	B1	43.18892	-75.0669	6/20/2023	9:12	NY	US	Stationary	1	5	N	H
Bobolink	2		B11	43.18745	-75.0696	6/20/2023	9:30	NY	US	Stationary	1	5	N	T
Savannah Sparrow	1		B11	43.18745	-75.0696	6/20/2023	9:30	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	12		B11	43.18745	-75.0696	6/20/2023	9:30	NY	US	Stationary	1	5	N	A
Eastern Meadowlark	1	Heard outside the point to the south	B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	
Northern Flicker	1		B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	A
Warbling Vireo	1		B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	
Red-winged Blackbird	3		B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	FL
Red-eyed Vireo	1		B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	
Yellow Warbler	1		B10	43.2048	-75.0611	6/20/2023	10:02	NY	US	Stationary	1	5	N	



**REDACTED – ORES MATTER NO. 23-00058 – NEWPORT DEERFIELD SOLAR LLC**

**Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023**

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Song Sparrow	1					6/20/2023	10:02	NY	US	Stationary	1	5	N	S7
American Goldfinch	1					6/20/2023	10:02	NY	US	Stationary	1	5	N	A
Indigo Bunting	1					6/20/2023	10:02	NY	US	Stationary	1	5	N	
Common Yellowthroat	2					6/20/2023	10:02	NY	US	Stationary	1	5	N	
Willow Flycatcher	1					6/20/2023	10:02	NY	US	Stationary	1	5	N	
American Robin	1					6/20/2023	10:02	NY	US	Stationary	1	5	N	
Red-bellied Woodpecker	1								6/20/2023	10:02	NY	US	Stationary	1
						6/20/2023	9:45	NY	US	Incidental	1	0	N	H
						6/20/2023	9:48	NY	US	Incidental	1	0	N	H
Eastern Meadowlark	1	flew out of the point as I arrived				6/26/2023	8:20	NY	US	Stationary	1	5	N	H
Warbling Vireo	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
Red-winged Blackbird	4					6/26/2023	8:20	NY	US	Stationary	1	5	N	A
American Crow	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
American Goldfinch	2					6/26/2023	8:20	NY	US	Stationary	1	5	N	
Song Sparrow	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	S7
American Robin	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
House Wren	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
Common Yellowthroat	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
American Redstart	1					6/26/2023	8:20	NY	US	Stationary	1	5	N	
Bobolink	2		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	P
Red-winged Blackbird	3		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	FS
Brown Thrasher	1		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	
Song Sparrow	1		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	
House Wren	1		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	
Northern Cardinal	1		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	
American Robin	1		B9	43.20053	-75.0594	6/26/2023	8:39	NY	US	Stationary	1	5	N	
Bobolink	4		B11	43.18745	-75.0696	6/26/2023	9:03	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	10		B11	43.18745	-75.0696	6/26/2023	9:03	NY	US	Stationary	1	5	N	FC
Bobolink	8		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	A
Common Yellowthroat	2		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	15		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	T
Red-tailed Hawk	1		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	
Indigo Bunting	1		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	
American Goldfinch	2		B1	43.18892	-75.0669	6/26/2023	9:21	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Song Sparrow	3		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	S7
American Goldfinch	1		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	2		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	S7
Swamp Sparrow	1		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	A
Belted Kingfisher	1		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	CN
Eastern Wood-Pewee	1		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	
Blue Jay	1		B13	43.17627	-75.0723	6/26/2023	9:52	NY	US	Stationary	1	5	N	
Veery	1		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	S
Indigo Bunting	1		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	S7
Song Sparrow	1		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	S7
American Crow	1		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	
Gray Catbird	2		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	A
American Goldfinch	2		B12	43.17693	-75.0789	6/26/2023	10:12	NY	US	Stationary	1	5	N	
Song Sparrow	3		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
American Goldfinch	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Field Sparrow	0		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Red-eyed Vireo	0		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Indigo Bunting	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Eastern Wood-Pewee	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S
Gray Catbird	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Cedar Waxwing	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S
Downy Woodpecker	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	H
American Crow	2		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	
House Wren	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	S7
Veery	1		B12	43.17693	-75.0789	7/5/2023	8:12	NY	US	Stationary	1	5	N	
Veery	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	
Song Sparrow	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	T
Red-bellied Woodpecker	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	H
Blue Jay	2		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	T
Indigo Bunting	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	S7
American Goldfinch	4		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	A
Common Yellowthroat	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	S7
Gray Catbird	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	S7
Downy Woodpecker	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	S
White-breasted Nuthatch	1		B13	43.17627	-75.0723	7/5/2023	8:27	NY	US	Stationary	1	5	N	
Bobolink	10		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	2		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	S7
Red-eyed Vireo	1		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	
American Goldfinch	1		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
Common Yellowthroat	1		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	
Savannah Sparrow	1		B1	43.18892	-75.0669	7/5/2023	8:55	NY	US	Stationary	1	5	N	S7
Bobolink	2		B11	43.18745	-75.0696	7/5/2023	9:07	NY	US	Stationary	1	5	N	S7
Savannah Sparrow	1		B11	43.18745	-75.0696	7/5/2023	9:07	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	6		B11	43.18745	-75.0696	7/5/2023	9:07	NY	US	Stationary	1	5	N	FC
Song Sparrow	1		B11	43.18745	-75.0696	7/5/2023	9:07	NY	US	Stationary	1	5	N	
American Robin	1		B11	43.18745	-75.0696	7/5/2023	9:07	NY	US	Stationary	1	5	N	
Eastern Meadowlark	1	west of dirt road in adjacent field	B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
American Kestrel	1	west of dirt road, and flying to the west	B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Gray Catbird	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	S7
American Crow	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Northern Flicker	2		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Eastern Bluebird	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Red-winged Blackbird	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Barn Swallow	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	H
Belted Kingfisher	1		B9	43.20053	-75.0594	7/5/2023	9:30	NY	US	Stationary	1	5	N	
Song Sparrow	2						9:45	NY	US	Stationary	1	5	N	S7
Red-winged Blackbird	2						9:45	NY	US	Stationary	1	5	N	H
Indigo Bunting	1						9:45	NY	US	Stationary	1	5	N	
Common Yellowthroat	1						9:45	NY	US	Stationary	1	5	N	S7
Red-eyed Vireo	1						9:45	NY	US	Stationary	1	5	N	S7
Common Grackle	1						9:45	NY	US	Stationary	1	5	N	H
Willow Flycatcher	1						9:45	NY	US	Stationary	1	5	N	
Gray Catbird	1						9:45	NY	US	Stationary	1	5	N	S7
Mourning Dove	2						9:45	NY	US	Stationary	1	5	N	H
American Goldfinch	3						9:45	NY	US	Stationary	1	5	N	
Cedar Waxwing	1						9:45	NY	US	Stationary	1	5	N	S
Eastern Bluebird	1						8:02	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	4						8:02	NY	US	Stationary	1	5	N	A
Indigo Bunting	1						8:02	NY	US	Stationary	1	5	N	S7
Song Sparrow	1						8:02	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	1						8:02	NY	US	Stationary	1	5	N	S7
Field Sparrow	1						8:02	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1						8:02	NY	US	Stationary	1	5	N	
							8:15	NY	US	Stationary	1	5	N	FC
Common Yellowthroat	1						8:15	NY	US	Stationary	1	5	N	
American Crow	1						8:15	NY	US	Stationary	1	5	N	
Gray Catbird	1						8:15	NY	US	Stationary	1	5	N	
Red-winged Blackbird	2						8:15	NY	US	Stationary	1	5	N	
Red-eyed Vireo	1						8:15	NY	US	Stationary	1	5	N	

Appendix A New York State Department of Environmental Conservation Survey Protocol for State-listed Breeding Grassland Bird Species , Newport Solar Project, Herkimer and Oneida Counties, April to July 2023

Common Name	Number observed	Species Comments	Location Name	Latitude	Longitude	Date	Start Time	State/ Province	Country Code	Protocol	Number of Observers	Duration	All observations reported?	Breeding code
American Robin	1		B9	43.20053	-75.0594	7/13/2023	8:15	NY	US	Stationary	1	5	N	
Northern Flicker	1		B9	43.20053	-75.0594	7/13/2023	8:15	NY	US	Stationary	1	5	N	
Bobolink	1		B11	43.18745	-75.0696	7/13/2023	8:43	NY	US	Stationary	1	5	N	FC
Savannah Sparrow	1		B11	43.18745	-75.0696	7/13/2023	8:43	NY	US	Stationary	1	5	N	A
Red-winged Blackbird	9		B11	43.18745	-75.0696	7/13/2023	8:43	NY	US	Stationary	1	5	N	H
American Goldfinch	1		B11	43.18745	-75.0696	7/13/2023	8:43	NY	US	Stationary	1	5	N	
Mallard	1		B11	43.18745	-75.0696	7/13/2023	8:43	NY	US	Stationary	1	5	N	
Red-winged Blackbird	2		B1	43.18892	-75.0669	7/13/2023	8:56	NY	US	Stationary	1	5	N	
American Goldfinch	3		B1	43.18892	-75.0669	7/13/2023	8:56	NY	US	Stationary	1	5	N	
Song Sparrow	2		B1	43.18892	-75.0669	7/13/2023	8:56	NY	US	Stationary	1	5	N	
Red-tailed Hawk	1		B1	43.18892	-75.0669	7/13/2023	8:56	NY	US	Stationary	1	5	N	
Eastern Kingbird	1		B12	43.17693	-75.0789	7/13/2023	9:34	NY	US	Stationary	1	5	N	H
Eastern Towhee	1		B12	43.17693	-75.0789	7/13/2023	9:34	NY	US	Stationary	1	5	N	
Song Sparrow	3		B12	43.17693	-75.0789	7/13/2023	9:34	NY	US	Stationary	1	5	N	S7
Indigo Bunting	1		B12	43.17693	-75.0789	7/13/2023	9:34	NY	US	Stationary	1	5	N	S7
Cedar Waxwing	3		B12	43.17693	-75.0789	7/13/2023	9:34	NY	US	Stationary	1	5	N	S7
Common Yellowthroat	3		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S7
Song Sparrow	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S7
Swamp Sparrow	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S7
Eastern Kingbird	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	H
Great Crested Flycatcher	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S7
American Goldfinch	2		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	H
Red-winged Blackbird	2		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	A
Brown-headed Cowbird	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S
Eastern Wood-Pewee	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S
Blue Jay	1		B13	43.17627	-75.0723	7/13/2023	9:55	NY	US	Stationary	1	5	N	S



# APPENDIX



# B

## Site Characterization Data

This page left blank intentionally.

Appendix B Site Characterization Data at Breeding Bird Survey Points, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023

Point	Robel Date	Survey Period	Habitat Type	Distance from Road/ Trail (m)	Distance from Hedgerow/ Woods (m)	Distance to Nearest Shrub (m)	% Grass	% Forb	% Bare	% Woody	Dominant Grass	Dominant Forb	Ave. Veg. Height (cm)	Litter Depth (cm)	N Robel (cm)	S Robel (cm)	E Robel (cm)	W Robel (cm)	Average Robel (cm)	Veg. Density	Invasive Species (within 25 m radius)	Management (e.g., mowing)
B1	6/6/2023	5	Hayfield	200	98	141	70	25	5	0	Kentucky bluegrass	Trifolium sp.	25	0.5	18	13	13	13	14	Moderate	Foxtail, Fescue, Dandelion, Trifolium	Appears to be mowed and collected yearly
B4	N/A	N/A	Hayfield	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after Period 5
B5	N/A	N/A	Row crop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after period 5; Tilled prior to round 4; row crop
B6	N/A	N/A	Row crop	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after period 5; Tilled prior to round 4; row crop
B7	N/A	N/A	Wet meadow	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after Period 5
B8	N/A	N/A	Wet meadow	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after Period 5
B9	6/6/2023	5	Hayfield	115	120	95	75	25	0	0	Foxtail	Dandelion	30	0.5	15	15	15	15	15	Rank	Foxtail, Dandelion, Leucanthimum	Appears to be mowed and collected yearly
B10	6/6/2023	6	Old Field	180	93	35	10	80	10	0	Sweet grass	Oxeye daisy	25	0.5	0	0	0	0	0	Moderate	Oxeye daisy, clover, Silene sp.	Appears to be regularly cleared as part of a recreational park. 60% mowed after Period 6; 80% mowed after period 7; Only slim eastern edge remains intact after period 7.
B11	6/6/2023	5	Hayfield	112	125	112	70	30	0	0	Foxtail	Trifolium sp.	25	0.5	5	7	4	4	5	Rank	Trifolium, Foxtail	Appears to be mowed and collected yearly
B12	6/6/2023	6	Wet meadow	415	45	2	1	69	0	30	Sweet grass	Goldenrod sp.	25	3	0	10	5	5	5	Moderate	none	Unmanaged
B13	6/6/2023	6	Old Field	360	82	8	65	30	0	5	Foxtail	Goldenrod sp.	35	5	10	8	10	25	13	Rank	Dandelion, Foxtail grass	Unmanaged
B14	N/A	N/A	Hayfield	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after Period 7
B15	N/A	N/A	Wet meadow	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dropped from surveys after Period 7

Note: Dominant plant species and percentages based on a 25-meter radius plot around the center point.

This page left blank intentionally.

# APPENDIX

## C

### Species Summary by Survey Point and Survey Period

This page left blank intentionally.

**Table C-1 Abundance of Birds within 100-meter Survey Radius Per Species by Survey Point, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Survey Point														Total Birds
	B1	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15		
Canada Goose	0	0	0	0	0	0	2	0	0	0	0	0	0	2	
Mourning Dove	0	0	0	0	0	0	1	2	0	1	0	0	0	4	
Killdeer	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
Red-bellied Woodpecker	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
Downy Woodpecker	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
Hairy Woodpecker	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
Northern Flicker	0	1	0	0	0	0	0	1	0	0	0	0	0	2	
American Kestrel	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
Eastern Wood-Pewee	0	0	0	0	0	0	0	0	0	2	1	0	0	3	
Alder Flycatcher	0	0	0	0	0	0	0	0	0	2	0	0	0	2	
Willow Flycatcher	0	0	0	0	1	0	0	0	0	0	2	0	4	7	
Eastern Phoebe	0	0	0	0	1	0	0	0	0	1	0	0	0	2	
Great Crested Flycatcher	0	0	0	0	0	0	0	0	0	1	2	0	0	3	
Eastern Kingbird	0	1	0	0	1	1	0	1	0	5	1	0	0	10	
Warbling Vireo	0	0	0	0	3	1	0	2	0	0	0	0	0	6	
Red-eyed Vireo	0	0	0	0	0	0	0	1	0	3	0	0	1	5	
Blue Jay	0	0	0	0	0	0	0	0	0	3	3	0	3	9	
Black-capped Chickadee	0	1	0	0	0	0	0	0	0	3	0	0	0	4	
Tree Swallow	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
Northern Rough-winged Swallow	0	0	0	0	0	0	0	2	0	0	0	0	0	2	
Barn Swallow	0	4	0	0	0	0	0	0	1	0	0	0	0	5	
House Wren	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
Gray Catbird	0	0	0	0	0	0	1	1	0	6	1	0	0	9	
Brown Thrasher	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Eastern Bluebird	0	0	0	0	0	0	0	1	0	0	0	0	0	1	

**Table C-1 Abundance of Birds within 100-meter Survey Radius Per Species by Survey Point, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Survey Point														Total Birds
	B1	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15		
Veery	0	0	0	0	0	0	0	0	0	3	0	0	0	3	
American Robin	0	0	100	0	0	0	0	6	0	0	0	1	0	107	
Cedar Waxwing	0	0	0	0	0	0	0	1	0	4	0	0	0	5	
American Pipit	0	0	0	150	0	0	0	0	0	0	0	0	0	150	
American Goldfinch	0	0	0	0	0	5	0	3	0	3	13	0	4	28	
American Tree Sparrow	0	0	0	0	0	0	0	3	0	0	0	0	0	3	
Chipping Sparrow	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
Field Sparrow	0	0	0	0	4	0	0	0	0	4	0	0	0	8	
Savannah Sparrow	6	0	0	0	0	0	2	1	10	1	0	0	3	23	
Song Sparrow	0	0	1	0	5	1	0	12	0	15	16	0	13	63	
Swamp Sparrow	0	0	0	0	0	6	0	0	0	0	2	0	1	9	
Eastern Towhee	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Bobolink	49	8	0	0	0	0	39	0	21	2	5	4	0	128	
Eastern Meadowlark	0	2	0	0	0	0	0	1	0	0	0	0	0	3	
Baltimore Oriole	0	0	0	0	0	2	0	0	0	0	1	0	0	3	
Red-winged Blackbird	46	4	0	0	7	4	27	40	67	0	22	25	17	259	
Brown-headed Cowbird	0	0	0	0	0	0	0	0	0	1	1	0	0	2	
Common Grackle	0	0	0	0	0	0	0	18	0	0	0	0	0	18	
Tennessee Warbler	0	0	0	0	1	1	0	0	0	0	0	0	0	2	
Common Yellowthroat	2	1	0	0	1	0	0	5	0	10	11	1	4	35	
Yellow Warbler	0	0	0	0	4	3	0	4	0	4	0	0	2	17	
Chestnut-sided Warbler	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Northern Cardinal	0	0	0	0	0	0	0	0	0	1	0	0	0	1	
Indigo Bunting	0	0	0	0	0	0	0	1	0	9	3	0	0	13	
Total Birds	103	23	101	151	28	25	73	107	100	88	89	31	54	973	
Total Species	4	9	2	2	10	10	7	21	5	26	19	4	12	50	



**Table C-2     Abundance of Birds within 100-meter Survey Radius Per Species by Survey Period, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Survey Period and Dates												Total Birds
	1	2	3	4	5	6	7	8	9	10	11	12	
	4/19/2023	4/26/2023	5/4/2023	5/12/2023	5/19/2023	5/30/2023	6/6/2023	6/13/2023	6/20/2023	6/26/2023	7/5/2023	7/13/2023	
Canada Goose	0	0	2	0	0	0	0	0	0	0	0	0	2
Mourning Dove	0	0	0	1	0	0	0	1	0	0	2	0	4
Killdeer	0	1	0	0	0	0	0	0	0	0	0	0	1
REDACTED	REDACTED												
Red-bellied Woodpecker	0	0	0	0	0	0	0	0	0	0	1	0	1
Downy Woodpecker	0	0	0	0	0	0	0	0	0	0	2	0	2
Hairy Woodpecker	1	0	0	0	0	0	0	0	0	0	0	0	1
Northern Flicker	0	1	0	0	0	0	0	0	1	0	0	0	2
American Kestrel	0	0	0	1	0	0	0	0	0	0	0	0	1
Eastern Wood-Pewee	0	0	0	0	0	0	0	1	0	0	1	1	3
Alder Flycatcher	0	0	0	0	0	2	0	0	0	0	0	0	2
Willow Flycatcher	0	0	0	0	3	1	2	1	0	0	0	0	7
Eastern Phoebe	0	2	0	0	0	0	0	0	0	0	0	0	2
Great Crested Flycatcher	0	0	0	1	0	0	1	0	0	0	0	1	3
Eastern Kingbird	0	0	0	0	6	0	0	1	1	0	0	2	10
Warbling Vireo	0	0	0	2	3	1	0	0	0	0	0	0	6
Red-eyed Vireo	0	0	0	0	0	1	2	0	0	0	2	0	5
Blue Jay	0	3	0	0	0	0	1	0	2	0	2	1	9
Black-capped Chickadee	0	1	0	3	0	0	0	0	0	0	0	0	4
Tree Swallow	0	0	0	1	0	0	0	0	0	0	0	0	1
Northern Rough-winged Swallow	0	0	0	0	0	0	0	2	0	0	0	0	2
Barn Swallow	0	0	0	1	4	0	0	0	0	0	0	0	5
House Wren	0	0	0	0	0	1	0	0	0	0	1	0	2
Gray Catbird	0	0	0	0	1	1	0	0	1	2	4	0	9
Brown Thrasher	0	0	0	1	0	0	0	0	0	0	0	0	1
Eastern Bluebird	0	0	0	0	0	0	0	0	0	0	0	1	1
Veery	0	0	0	0	0	0	2	0	0	1	0	0	3
American Robin	100	2	1	2	0	1	1	0	0	0	0	0	107
Cedar Waxwing	0	0	0	0	0	0	0	0	0	0	2	3	5
American Pipit	0	0	150	0	0	0	0	0	0	0	0	0	150
American Goldfinch	0	0	3	3	6	1	2	4	1	1	5	2	28
American Tree Sparrow	0	3	0	0	0	0	0	0	0	0	0	0	3
Chipping Sparrow	0	0	0	0	0	0	0	1	1	0	0	0	2
Field Sparrow	0	1	2	2	2	0	0	0	0	0	1	0	8
Savannah Sparrow	1	3	2	2	5	0	4	2	1	0	2	1	23
Song Sparrow	1	5	6	6	5	9	6	4	5	5	6	5	63
Swamp Sparrow	2	1	2	1	1	0	0	0	0	1	0	1	9
Eastern Towhee	0	0	1	0	0	0	0	0	0	0	0	0	1
Bobolink	0	0	0	18	25	18	12	18	10	14	12	1	128

**Table C-2      Abundance of Birds within 100-meter Survey Radius Per Species by Survey Period, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Survey Period and Dates												Total Birds
	1	2	3	4	5	6	7	8	9	10	11	12	
	4/19/2023	4/26/2023	5/4/2023	5/12/2023	5/19/2023	5/30/2023	6/6/2023	6/13/2023	6/20/2023	6/26/2023	7/5/2023	7/13/2023	
Eastern Meadowlark	2	0	0	0	0	0	0	0	0	1	0	0	3
Baltimore Oriole	0	0	0	0	2	1	0	0	0	0	0	0	3
Red-winged Blackbird	2	9	18	31	43	29	27	26	18	32	12	12	259
Brown-headed Cowbird	0	0	0	0	0	1	0	0	0	0	0	1	2
Common Grackle	2	0	5	4	5	1	0	0	0	0	1	0	18
Tennessee Warbler	0	0	0	0	2	0	0	0	0	0	0	0	2
Common Yellowthroat	0	0	0	5	6	6	3	3	1	5	3	3	35
Yellow Warbler	0	0	0	7	4	2	3	1	0	0	0	0	17
Chestnut-sided Warbler	0	0	0	0	0	0	0	0	1	0	0	0	1
Northern Cardinal	0	0	0	0	0	0	1	0	0	0	0	0	1
Indigo Bunting	0	0	0	0	0	3	2	2	1	1	2	2	13
Total Birds	112	32	193	93	123	79	69	67	44	63	61	37	973
Total Species	9	12	12	20	17	17	15	14	13	10	18	15	50

# APPENDIX

D

## Incidental Bird Species Observed

This page left blank intentionally.

**Appendix D Incidental Bird Species Observed during the Breeding Bird Survey at Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Number >100 m	Number Between Points	Number of Flyovers
Canada Goose	2	0	2
Wood Duck	1	0	0
Mallard	0	0	3
Turkey Vulture	6	0	2
Red-tailed Hawk	3	0	3
American Kestrel	3	3	2
Wilson's Snipe	1	0	0
American Woodcock	1	0	0
Mourning Dove	1	0	0
Great Horned Owl	1	0	0
Belted Kingfisher	0	0	2
Red-bellied Woodpecker	2	0	0
Northern Flicker	3	0	0
Pileated Woodpecker	1	0	0
Eastern Wood-Pewee	4	0	0
Alder Flycatcher	8	0	0
Willow Flycatcher	8	0	0
Least Flycatcher	1	0	0
Great Crested Flycatcher	2	0	0
Eastern Kingbird	0	0	1
Warbling Vireo	3	0	0
Red-eyed Vireo	12	0	0
Blue Jay	2	0	2
American Crow	21	0	3
Common Raven	0	0	1
Barn Swallow	0	0	10
Black-capped Chickadee	7	0	0
Tufted Titmouse	2	0	0
White-breasted Nuthatch	1	0	0
Brown Creeper	1	0	0
House Wren	3	0	0
Eastern Bluebird	1	0	0
Veery	5	0	0
Wood Thrush	2	0	0
American Robin	7	50	1
Gray Catbird	4	0	0
Brown Thrasher	1	0	1
European Starling	0	0	6
American Pipit	100	0	0
Yellow Warbler	5	0	0

**Appendix D Incidental Bird Species Observed during the Breeding Bird Survey at Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Common Name	Number >100 m	Number Between Points	Number of Flyovers
Chestnut-sided Warbler	1	0	0
American Redstart	2	0	0
Common Yellowthroat	14	0	0
Eastern Towhee	1	0	0
Field Sparrow	2	0	0
Savannah Sparrow	0	1	0
Song Sparrow	6	0	0
Swamp Sparrow	1	0	0
Northern Cardinal	5	0	0
Rose-breasted Grosbeak	1	0	0
Indigo Bunting	4	0	0
Bobolink	5	0	0
Red-winged Blackbird	43	0	10
Eastern Meadowlark	8	2	0
Common Grackle	2	0	1
Brown-headed Cowbird	2	0	2
American Goldfinch	1	0	23
House Sparrow	1	0	0
<b>Total Observations</b>	<b>325</b>	<b>61</b>	<b>75</b>
<b>Number of Species</b>	<b>52</b>	<b>5</b>	<b>18</b>

Notes: Point B2 and B3 omitted from table.

# APPENDIX

## E Photo Log

This page left blank intentionally.





Photograph 1 – Point B1 facing south. Hay field habitat. Bobolink, Red-winged Blackbird, and Savannah Sparrow were prominent at point 1.





*E. Photo Log*

Photograph 3 – Point B10 facing west. Old field habitat. The old field surrounding Point B10 appears to be part of a recreation park and may be regularly maintained as an off-road track.



Photograph 4 – Point B11 facing north. Hay habitat. Nesting birds included Bobolink, Savannah Sparrow, and Red-winged Blackbirds.





Photograph 5 – Point B12 facing north. Wet meadow habitat. Species diversity was the largest at point B12 as 26 species of bird were detected.



Photograph 6 – Point B13 facing south. Old field habitat. Breeding bird species included Bobolink, Song Sparrow, and Red-winged Blackbird.

This page left blank intentionally.

# APPENDIX



# F

## Weather Conditions

This page left blank intentionally.

**Appendix F Breeding Bird Survey Weather Summary, Newport Solar Project, Herkimer and Oneida Counties, New York, April to July 2023**

Survey Period	Date	Temperature (degrees Fahrenheit)		Prevailing Wind Direction	Wind Speed (mph)		Cloud Cover (%)	Precipitation (Y/N)
		Low	High		Min	Max		
Day Prior	4/18/2023	36	43	W	0	21	100	Y
1	4/19/2023	32	36	W	4	10	100	N
Day Prior	4/25/2023	33	50	NW	0	12	<50	N
2	4/26/2023	36	47	E	2	6	>75	N
Day Prior	5/3/2023	39	47	W	0	10	100	Y
3	5/4/2023	41	43	NW	0	3	100	N
Day Prior	5/11/2023	37	75	NW	0	16	<50	N
4	5/12/2023	56	67	W	0	6	<25	N
Day Prior	5/18/2023	28	65	NE	0	8	<25	N
5	5/19/2023	47	62	SE	0	6	<25	N
Day Prior	5/29/2023	45	86	E	0	8	<25	N
6	5/30/2023	67	72	SE	0	6	0	N
Day Prior	6/5/2023	44	71	W	0	20	<50	N
7	6/6/2023	52	58	NW	0	6	100	N
Day Prior	6/12/2023	63	77	SE	3	16	>75	Y
8	6/13/2023	55	59	W	4	6	90	N
Day Prior	6/19/2023	55	80	E	0	8	<25	N
9	6/20/2023	61	67	W	4	6	<25	N
Day Prior	6/25/2023	64	84	Var.	0	15	>75	Y
10	6/26/2023	69	74	SE	4	10	>75	N
Day Prior	7/4/2023	64	83	NW	0	12	<50	N
11	7/5/2023	70	73	W	0	6	<25	N
Day Prior	7/12/2023	62	80	NW	0	14	<25	N
12	7/13/2023	70	74	SE	4	6	>75	N

Source: Wunderground.com

Notes:

Weather data for prior days representative of survey hours (5:00 a.m.to 10:30 a.m.) weather data from Griffiss International Airport Station, Rome, New York.

Weather data for survey days collected in the field or using the Wunderground weather application.