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I don't understand how the city can even propose an Environmental Impact Statement for a plan that is unprecedented in its destruction: how can anyone predict impact, when there is no precedent? In my area of expertise, terrestrial biodiversity, **the DEIS is incomplete, inaccurate and makes unjustified assumptions.**

- 1) The **incomplete and inaccurate assessment** is based on two four-hour mid-summer walkthroughs, supplemented with external information (not site-specific). The walkthroughs documented approximately 18 bird and insect species (DEIS Appendix F1: "invertebrate species richness was low, as anticipated for a heavily-disturbed, urban system"). According to DEIS 5.6-31, the USFWS iPaC tool gave list of 58 migratory birds that might use the ESCR region. **Citizen Scientists** have documented >430 species, including 82 bird and 104 insect species.

In DEIS Appendix H1, the NYS Natural Heritage Program lists the peregrine falcon as an endangered species known to nest on the Williamsburg bridge. The letter from NYSNHP points out: "**For most sites, comprehensive field surveys have not been conducted... further information from on-site surveys or other sources may be required to fully assess impacts on biological resources.**"

**Citizen Scientists** have documented nine birds and one bumble bee that are on the NYSNHP list of rare animal species; several are Endangered or Critically Imperiled in NYS (see attached documentation from Loyal Beausoleil's 5-month bird survey, e-bird, and iNaturalist). **All ten require thoughtful, individual mitigation plans.**

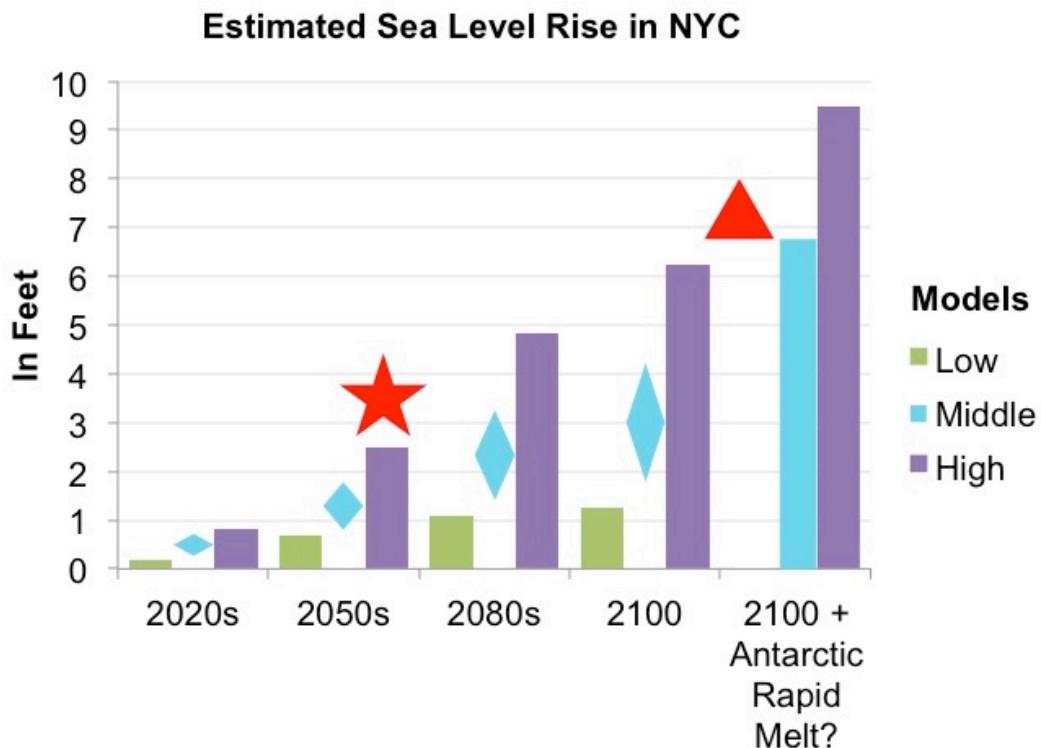
- 2) The DEIS (6.5-13) makes **unjustified assumptions** about the temporary nature of negative impacts when it proposes that urban wildlife will "relocate to other suitable areas". **This assumes** that organisms can disperse, that available habitats can support an influx of new wildlife, and that organisms will spontaneously return at some point in the future. At the time that the City proposes to commence destruction, the Critically Imperiled bumble bee *Bombus fervidus* would be represented by newly-mated over-wintering queens. Bumble bees avoid roads, and the newly-mated queens of this NYS "High Priority Species of Greatest Conservation Need" would **not** be expected to "relocate".

The DEIS (5.6-55) claims that the negative impact of losing 981 mature trees, to be replaced by 1442 saplings, will be temporary because "the new landscape would represent an improvement...". **This assumes** that the saplings will actually mature. **This cannot be assumed**, given that many new trees would be reaching maturity just as the flood barrier—designed to last only through the 2050s—reaches the end of its usable lifespan..

Of the many flaws in the City's preferred Alternative 4, the failure to plan for 2100 is the worst, because it condemns the East River shoreline to be a perpetual construction zone. The DEIS **does** include a plan that is much less destructive, and offers the same flood protection at 1/3 the price: **baseline Alternative 2**. Alternative 2 preserves the floodplain and allows for future wetland expansion—consistent with state goals to offset carbon emissions. Alternative 2 preserves many other beloved park features: the Ecology Center and Seal Plaza, the Compost Yard, the amphitheater, the current embayments with existing bridges, the Labyrinth, and existing fitness areas. The billion dollars left over from Alternative 4 could pay for a lot of other wonderful park improvements... Please **DISAPPROVE** the disastrous Alternative 4!

## Estimated Sea Level Rise, and Proposed Protection in the ESCR District

★ Why is the city planning for 2.5 feet of sea level rise (by 2050) in the **ESCR district**... and >6 feet of sea level rise (by 2100) in the **financial district**? ▲



Adapted from:  
**New York City Panel on Climate Change 2019 Report**  
Executive Summary

The “adaptable design” of Alternative 4 will turn the ESCR waterfront into a perpetual construction zone. When Jamie Torres-Springer said that Alt. 4 would offer flood protection through 2100, he was:

- 1) assuming another round of park elevation,
- 2) looking at the middle-range model of sea level rise, and
- 3) discounting the possibility of Antarctic rapid melt.

## NYSNHP Conservation Status of 10 NYS Rare Animal Species in the East River Park

FAMILY	COMMON NAMES	SCIENTIFIC NAME	IUCN	FEDERAL NYS	Source	NYS Categories
			Vulnerable	G4?	RG	IUCN Vulnerable; State S1 (Critically Imperiled), Y-H (High Priority Species of Greatest Conservation Need)
Apidae	Golden Northern Bumble Bee	<i>Bombus fervidus</i>				
Accipitridae	Cooper's Hawk	<i>Accipiter cooperii</i>	LC	G5	S4; SC eBird HS	<b>NYS SC (Special Concern)</b>
Anatidae	American Black Duck	<i>Anas rubripes</i>	LC	G5	S3B; SNRN eBird HS	<b>NYS S3B (Vulnerable, Breeding)</b>
Anatidae	Red-breasted Merganser	<i>Mergus serrator</i>	LC	G5	S3 RG	<b>NYS S3 (Vulnerable)</b>
Laridae	Laughing Gull	<i>Leucophaeus atricilla</i>	LC	G5	S1; Y eBird HS	<b>NYS S1 (Critically Imperiled), Y (Species of Greatest Conservation Need)</b>
Falconidae	Peregrine Falcon	<i>Falco peregrinus</i>	LC	G4	S3B; E; Y eBird HS	<b>NYS S3B (Vulnerable, Breeding), E (Endangered); Y (Species of Greatest Conservation Need)</b>
Parulidae	Blackpoll Warbler	<i>Setophaga striata</i>	NT (Near th)	G5	S3B eBird HS	<b>NYS S3B (Vulnerable, Breeding)</b>
Parulidae	Northern Parula	<i>Setophaga americana</i>	LC	G5	S3; S4B LB pers. obs eBird; RG re	<b>NYS S3 (Vulnerable)</b> <b>NYS S2 (Imperiled); NYS S3B (Vulnerable, Breeding)</b>
Parulidae	Palm Warbler	<i>Setophaga palmarum</i>	LC	G5	S2; S3B RG	<b>NYS S2 (Imperiled); NYS S3B (Vulnerable, Breeding)</b> <b>NYS S3 (Vulnerable)</b>
Phalacrocoracidae	Double-crested Cormorant	<i>Phalacrocorax auritus</i>	LC	G5	S3	

RG = iNaturalist, Research Grade

iNat blurs the locality data for rare species

eBird HS = eBird HotSpot

IUCN = International Union for Conservation of Nature and Natural Resources

Federal and State categories from NY Natural Heritage Program 2017 (Active Inventory or Watch List)

For the most part, global and subnational ranks follow a straightforward scale of 1 (rarest/most imperiled) to 5 (common/secure), as follows:

- |        |   |
|--------|---|
| G1, S1 | Critically Imperiled—Critically imperiled globally or in the state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extinction.    |
| G2, S2 | Imperiled—Imperiled globally or in the state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to global extinction or extirpation. |
| G3, S3 | Vulnerable—Vulnerable globally or in the state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.                        |
| G4, S4 | Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.   |
| G5, S5 | Secure—Common, widespread, and abundant globally or in the state/province.  |

B = Breeding; N = Non-breeding

**State** legal listings are identified with the following codes:

- |    |                 |
|----|-----------------|
| E  | endangered      |
| T  | threatened      |
| SC | special concern |

**Federal** legal listings are identified with the following codes:

- |   |                   |
|---|-------------------|
| E | listed endangered |
| T | listed threatened |
| C | candidate         |

Another **state designation** is **Species of Greatest Conservation Need (SGCN)**, which was developed as part of the state's wildlife action plan. In the following list, SGCN are coded as follows:

- |     |  |
|-----|--|
| Y   | SGCN                                   |
| Y-H | High-priority SGCN                     |
| P   | Species of Potential Conservation Need |

See <http://www.dec.ny.gov/animals/9406.html> for a list of the state's SGCN and definitions of the three categories.

# Loyan Beausoleil's Five Month Bird Survey

## Observing Avian Diversity in East River Park and Corlears Hook Park

### DESCRIPTION

The primary purpose of Observing Avian Diversity in East River Park and Corlears Hook Park (ERP Bird Survey) is to catalogue the park's avian populations within a five-month time frame. A second goal is to provide information to guide NYC in developing appropriate coastal protection based on best possible science, which provides and plans for avian populations as indicators of biodiversity and habitat health. East River Park and Corlears Hook Park combined are 61.86 acres of multi-use urban parkland.



**Fig. 1.** ERP Bird Survey Continuous Line Transect.

### METHODOLOGY

The ERP Bird Survey protocol is a 1.88-mile continuous line transect (Fig. 1). The surveyor (Loyan Beausoleil) walked the line transect in the same direction and for approximately 1.75 hours each time the survey was administered. The continuous line transect took place at varying times of day to consider species that may be more active at different hours.

Avifauna seen within the park's boundaries while walking the continuous line transect were recorded. Bird observations were recorded with pencil and paper, and all data was submitted to the eBird

website. Additionally a small section of Pier 42 is included in the continuous line transect (Fig. 1) as the Pier 42 intertidal area is utilized by multiple species. Photographs of birds were taken when possible.

Criteria for exclusion were:

- Birds that were not identified to the species level
- Gulls flying along the East River and not utilizing the park or river near shore

**Table 1.**

Summary of Official Continuous Line Transects (surveys) Dec. 2018-May 2019

	2019 (Jan-May)	2018 (Dec – Christmas Day Bird Count)	Total
<b>Number of Surveys</b>	13	1	14
<b>Number of Bird Species</b>	52	23	54 (see appendix 1)
<b>Top Five Most Abundant Species Based on Total Number of Individuals</b>	1. White-throated Sparrow (507) 2. Rock Pigeon (409) 3. European Starling (406) 4. House Sparrow (192) 5. Dark-eyed Junco (150)	1. White-throated Sparrow (145) 2.) Dark-eyed Junco (33) 3. European Starling (19) 4. Blue Jay (10) 5. Ring-billed Gull/American Crow (6)	1. White-throated Sparrow (652) 2. European Starling (425) 3. Rock Pigeon (414) 4. House Sparrow (193) 5. Dark-eyed Junco (180)
<b>Top Five Most Abundant Native Species Based on Total Number of Individuals</b>	1. White-throated Sparrow (507) 2. Dark-eyed Junco (150) 3. Mourning Dove (147) 4. American Robin (100) 5. Ring-billed Gull (99)	1. White-throated Sparrow (145) 2. Dark-eyed Junco (33) 3. Blue Jay (10) 4. American Crow/ Ring-billed Gull (6) 5. Tufted Titmouse (4)	1. White-throated Sparrow (652) 2. Dark-eyed Junco (180) 3. Mourning Dove (149) 4. Ring-billed Gull (105) 5. American Robin (103)
<b>Highest Number of Species During a Survey</b>	28 (Sat. 4 May, 2019)	23 (Sun. 16 December, 2018, CBC)	n/a
<b>Total Number of Individuals of Native Species</b>	1391	228	1619
<b>Total Number of Individuals of Introduced Species</b>	1007	25	1032

<sup>+</sup> These numbers reflect species that met criteria and were observed during official surveys. See the “non-official bird surveys” section for additional species information.

## RESULTS

### Official Continuous Line Transects - Birds

One (1) official continuous line transect was completed in December 2018 as part of the Audubon Christmas Day Bird Count (CBC). Thirteen (13) official continuous line transects were completed in 2019 which follow the CBC transect (Table 1). The fourteen (14) continuous line transects took place between Sunday 16 December 2018 and Saturday 4 May 2019.

During the five-month survey White-throated Sparrow and European Starling were the two most populous species in the park. It is worth noting that 53.4% of European Starling individuals observed during the continuous line transect, occur in Corlears Hook Park. Numbers of individuals of native species outnumber numbers of individuals of introduced species in each continuous line transect.

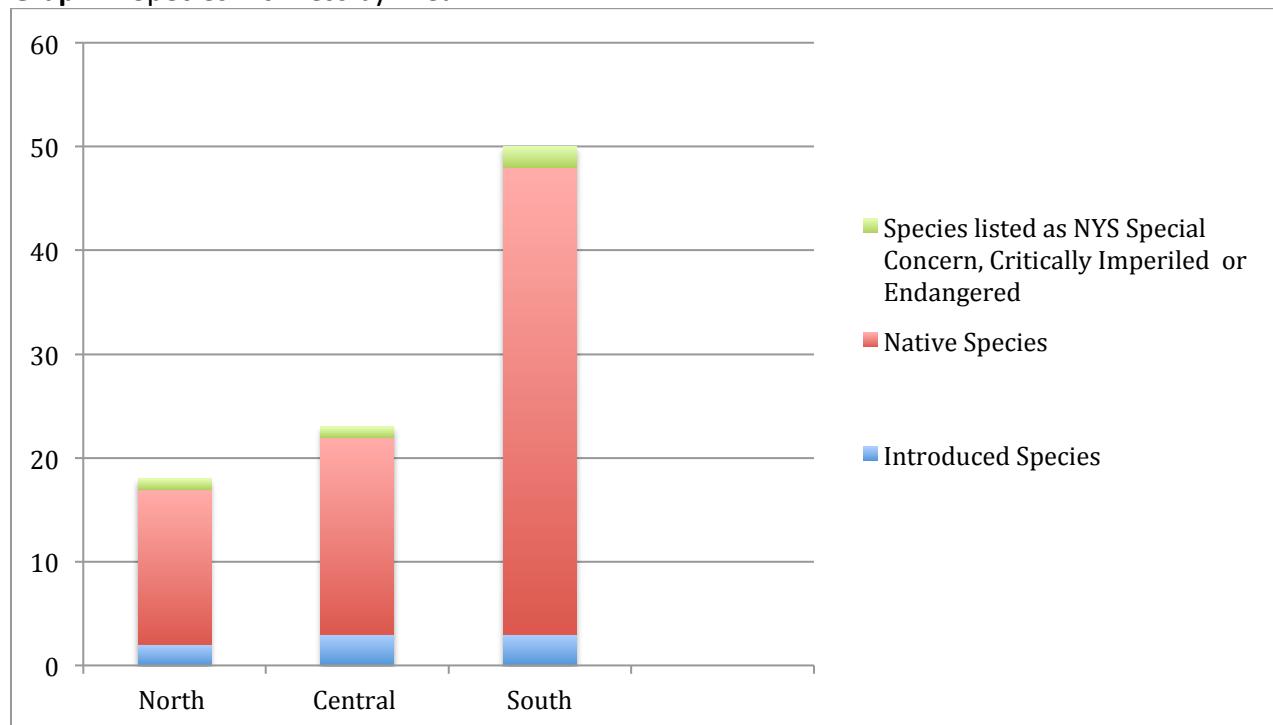


**Fig. 2** North, Central and South sections of East River Park

#### Official Continuous Line Transects – Species Richness

For the continuous line transect, the entire area is divided into three (3) sections (Fig. 2): North end, Central East River Park and South end (including Corlears Hook Park). Species richness is recorded for each section.

During the five-month survey the North Section species richness is sixteen (16), the Central Section is nineteen (19) and South Section species richness is 50. It is worth noting that Peregrine Falcon an endangered species, and Cooper's Hawk a species of special concern are recorded in the South Section, and Laughing Gull a critically imperiled species is recorded in the North and South sections. Additionally a non-official ebird record notes a threatened species (Common Tern) not included in Graph 1.

**Graph 1.** Species Richness by Area

### Non-official bird surveys

Ebird records show 15 additional bird surveys recorded between Sunday 16 December 2018 and Saturday 4 May 2019. Of these surveys surveyor Loyal Beausoleil conducted five (5) and ten (10) were conducted by other people not responsible for this report (Table 3).

**Table 3.**

Non-official survey	Additional species observed in non-official survey	Additional species photographed in non-official survey
Loyal Beausoleil	Brown Creeper Fish Crow Blue-gray Gnatcatcher Savannah Sparrow	Brown Creeper  Blue-gray Gnatcatcher
Other persons	Common Tern (listed as NYS Threatened) Eastern Kingbird Northern Parula Chimney Swift	

## **LIST OF ENDANGERED, THREATENED AND SPECIAL CONCERN FISH & WILDLIFE SPECIES OF NEW YORK STATE.**

For the five-month survey, two species included on the NYS List of Endangered, Threatened and Special Concern Fish & Wildlife are documented. Photographs were taken when possible.

- Peregrine Falcon (Endangered)
  - o Sunday 17 March 2019, transect #9
- Coopers Hawk (Species of Special Concern)
  - o Saturday 12 January, 2019, transect #2



- o Thursday 17 January, 2019, transect #3



- o Saturday 26 January, 2019, transect #4



Additional non-official bird surveys from the five-month time period document three (3) species included on the NYS List of Endangered, Threatened and Special Concern Fish & Wildlife.

- **Peregrine Falcon (Endangered)**

- o Loyan Beausoleil non-official bird survey, Wednesday 20 March, 2019 (photograph taken during non-official bird survey)



- **Coopers Hawk (Species of Special Concern)**

- o Non-official bird survey, Thursday 17 January, 2019

- **Common Tern (Threatened)**

- o Non-official bird survey, Saturday 18 May, 2019

## DISCUSSION & CONCLUSION

East River Park and Corlears Hook Park combined is 61.86 acres and the largest existing green space South of Central Park. The five-month Official Continuous Line Transect Survey shows that East River Park and Corlears Hook Park support varied and numerous populations of birds. The park provides multiple microhabitats including areas of mature trees, native plantings, a compost yard, riverfront, Pier 42 intertidal area, grassy areas, shrubby areas and ball fields. It is worth noting that varied seabirds, waterfowl and Belted Kingfisher were observed feeding at the intertidal area at Pier 42 on all except two of the official line transect surveys (Appendix 2).

NYC is strongly urged to make changes to the East Side Coastal Resiliency Plan, in order to support avian populations. Based on this report I specifically recommend the following:

- Changes to the park should happen in stages and be less drastic to maintain and provide habitat during construction especially considering the documented presence of Cooper's Hawk a NYS species of special concern and Peregrine Falcon a NYS endangered species.
- The Pier 42 intertidal area at the South end of East River Park should not be disturbed at anytime during the reconstruction of the park and should not be blocked by barges or machinery at any stage of the construction. This is an important feeding area for multiple native species, including Red-breasted Merganser, Ring-billed Gull, Great Black-backed Gull, Canada Goose, Double-crested Cormorant, Herring Gull, and Brant.
- Methods for protecting as many of the microhabitats as possible should be developed in areas utilized by multiple species, including the mature trees, lawns, and shrubs around the amphitheater, lawns and areas of native plantings from the Fireboat House to the Williamsburg Bridge, and the stands of mature trees North and South of the running track.

Respectfully submitted by  
Loyan Beausoleil (June, 2019)

## **References**

Ebird Hotspot Map, East River Park, Manhattan, Illustrated Checklist. (n.d.). Retrieved June 4, 2019, from <http://ebird.org/hotspot/L872559/media?yr=all&m=>

List of Endangered, Threatened and Special Concern Fish & Wildlife Species of New York State. (n.d.). Retrieved June 4, 2019, from <https://www.dec.ny.gov/animals/7494.html>

## Appendix 1

### Bird Species Observed During Official Continuous Line Transect (in taxonomic order)

\* Photographed during official continuous line transect

1. \*Brant (*Branta bernicla*)
2. \*Canada Goose (*Branta Canadensis*)
3. Mallard (*Anas platyrhynchos*)
4. **American Black Duck (*Anas rubripes*) NYS S3B (Vulnerable, Breeding)**
5. **\*Red-breasted Merganser (*Mergus serrator*) NYS S3 (Vulnerable)**
6. \*Rock Pigeon (*Columba livia*)
7. \*Mourning Dove (*Zenaida macroura*)
8. **\*Laughing Gull (*Leucophaeus atricilla*) NYS S1 (Critically Imperiled), Y (Species of Greatest Conservation Need)**
9. \*Ring-billed Gull (*Larus delawarensis*)
10. Herring Gull (*Larus argentatus*)
11. \*Great Black-backed Gull (*Larus marinus*)
12. **\*Double-crested Cormorant (*Phalacrocorax auritus*) NYS S3 (Vulnerable)**
13. **\*Cooper's Hawk (*Accipiter cooperii*) NYS SC (Special Concern)**
14. \*Red-tailed Hawk (*Buteo jamaicensis*)
15. \*Belted Kingfisher (*Megaceryle alcyon*)
16. \*Yellow-bellied Woodpecker (*Sphyrapicus varius*)
17. \*Red-bellied Woodpecker (*Melanerpes carolinus*)
18. Downy Woodpecker (*Dryobates pubescens*)
19. \*American Kestrel (*Falco sparverius*)
20. **Peregrine Falcon (*Falco peregrinus*)  
NYS S3B (Vulnerable, Breeding), E (Endangered); Y (Species of Greatest Conservation Need)**
21. \*Eastern Phoebe (*Sayornis phoebe*)
22. Yellow-throated Vireo (*Vireo flavifrons*)
23. Blue-headed Vireo (*Vireo solitarius*)
24. \*Blue Jay (*Cyanocitta cristata*)
25. \*American Crow (*Corvus brachyrhynchos*)
26. \*Barn Swallow (*Hirundo rustica*)
27. Tufted Titmouse (*Baeolophus bicolor*)
28. \*White-breasted Nuthatch (*Sitta carolinensis*)
29. \*American Robin (*Turdus migratorius*)
30. Gray Catbird (*Dumetella carolinensis*)
31. Brown Thrasher (*Toxostoma rufum*)
32. \*Northern Mockingbird (*Mimus polyglottos*)
33. European Starling (*Sturnus vulgaris*)
34. House Finch (*Haemorhous mexicanus*)
35. \*American Goldfinch (*Spinus tristis*)
36. \*Chipping Sparrow (*Spizella passerina*)
37. \*Field Sparrow (*Spizella pusilla*)
38. \*Fox Sparrow (*Passerella iliaca*)
39. \*Dark-eyed Junco (*Junco hyemalis*)
40. \*White-throated Sparrow (*Zonotrichia albicollis*)
41. \*Song Sparrow (*Melospiza melodia*)
42. Swamp Sparrow (*Melospiza georgiana*)
43. \*Eastern Towhee (*Pipilo erythrrophthalmus*)
44. Baltimore Oriole (*Icterus galbula*)
45. Common Grackle (*Quiscalus quiscula*)
46. Ovenbird (*Seiurus aurocapilla*)
47. Black-and-white Warbler (*Mniotilla varia*)
48. \*Hooded Warbler (*Setophaga citrina*)
49. Yellow Warbler (*Setophaga petechia*)
50. **Blackpoll Warbler (*Setophaga striata*) NYS S3B (Vulnerable, Breeding)**
51. \*Yellow-rumped Warbler (*Setophaga coronata*)
52. \*Prairie Warbler (*Setophaga discolor*)
53. Scarlet Tanager (*Piranga olivacea*)
54. House Sparrow (*Passer domesticus*)

## **Appendix 2**

### **Inter-tidal area at Pier 42**

From the East Side Coastal Resiliency, draft EIS: Appendix F1: Natural Resources Survey, Wildlife - States, "No birds or other wildlife was observed at the Pier 42 intertidal area."

Only two 30-minute walk-throughs to record avian diversity were conducted for the entire 61.86-acre area of East River Park and Corlears Hook Park. This is not enough time to provide accurate information, as multiple species have been observed feeding at the Pier 42 intertidal area.

The Observing Avian Diversity in East River Park and Corlears Hook Park report documents the following feeding activity in this area. The area shows feeding activity in 12 out of 14 official continuous line transects (85.7%).

5/4/19 ERA, environmental group: transect #13: <https://ebird.org/view/checklist/S55939638>  
Great Black-backed Gull (2)

4/28/19 ERA, environmental group: transect #12: <https://ebird.org/view/checklist/S55936059>  
Double-crested Cormorant (2)

4/13/19 ERA, environmental group: transect #11: <https://ebird.org/view/checklist/S55163501>  
Canada Goose (2), Double-crested Cormorant (1), Belted Kingfisher (1)

4/6/19 ERA, environmental group: transect #10: <https://ebird.org/view/checklist/S54844980>  
Ring-billed Gull (1), Double-crested Cormorant (2)

3/17/19 ERA, environmental group: transect #9: <https://ebird.org/view/checklist/S54268077>  
Ring-billed Gull (48), Herring Gull (3), Great Black-backed Gull (1)

3/02/19 ERA, environmental group: transect #8: <https://ebird.org/view/checklist/S53392329>  
Red-breasted Merganser (8), Great Black-backed Gull (1)

2/15/15 ERA, environmental group: transect #7: <https://ebird.org/view/checklist/S52795691>  
Red-breasted Merganser (3)

2/10/19 ERA, environmental group: transect #6: <https://ebird.org/view/checklist/S52794377>  
Red-breasted Merganser (8)

2/03/19 ERA, environmental group: transect #5: <https://ebird.org/view/checklist/S52444307>  
Red-breasted Merganser (9), Ring-billed Gull (2), Double-crested Cormorant (1)

1/26/19 ERA, environmental group: transect #4: <https://ebird.org/view/checklist/S52116526>  
Red-breasted Merganser (4)

1/17/19 ERA, environmental group: transect #3: <https://ebird.org/view/checklist/S51778183>  
Red-breasted Merganser (6), Ring-billed Gull (9), Herring Gull (2), Great Black-backed Gull (1), Brant (2), Double-crested Cormorant (1)

1/12/19 ERA, environmental group: transect #2: <https://ebird.org/view/checklist/S51623683>  
Red-breasted Merganser (4)

# Preliminary Record of Species at the East River Park

Citizen Science Sources (checked by Dr. Amy Berkov and Loyan Beausoleil)

iNaturalist: [https://www.inaturalist.org/observations?place\\_id=132141](https://www.inaturalist.org/observations?place_id=132141)

eBird East River Park Hotspot <<https://ebird.org/hotspot/L872559>

Loyan Beausoleil: observing Avian Diversity in East River Park and Corlears Hook Park, attached

## BIRDS\_82

Order	Family	Common name	Species	Research Grade?
Accipitriformes	Accipitridae	Cooper's Hawk	<i>Accipiter cooperii</i>	eBird HS NYS SC (Special Concern)
Accipitriformes	Accipitridae	Red-tailed Hawk	<i>Buteo jamaicensis</i>	RG
Anseriformes	Anatidae	American Black Duck	<i>Anas rubripes</i>	eBird HS NYS S3B (Vulnerable, Breeding)
Anseriformes	Anatidae	Brant Goose	<i>Branta bernicla</i>	RG
Anseriformes	Anatidae	Bufflehead	<i>Bucephala albeola</i>	eBird HS
Anseriformes	Anatidae	Canada Goose	<i>Branta canadensis</i>	RG
Anseriformes	Anatidae	Greater Scaup	<i>Aythya marila</i>	eBird HS
Anseriformes	Anatidae	Mallard Duck	<i>Anas platyrhynchos</i>	eBird HS
Anseriformes	Anatidae	Red-breasted Merganser	<i>Mergus serrator</i>	RG NYS S3 (Vulnerable)
Anseriformes	Anatidae	White-winged Scoter	<i>Melanitta deglandi</i>	eBird HS
Caprimulgiformes	Apodidae	Chimney Swift	<i>Chaetura pelasgica</i>	eBird HS IUCN Vulnerable
Charadriiformes	Charadriidae	Killdeer	<i>Charadrius vociferus</i>	RG
Charadriiformes	Laridae	Great Black-backed Gull	<i>Larus marinus</i>	eBird HS
Charadriiformes	Laridae	Herring Gull	<i>Larus argentatus</i>	eBird HS
Charadriiformes	Laridae	Laughing Gull	<i>Leucophaeus atricilla</i>	eBird HS NYS S1 (Critically Imperiled), Y (Species of Greatest Conservation Need)
Charadriiformes	Laridae	Ring-billed Gull	<i>Larus delawarensis</i>	eBird HS
Charadriiformes	Laridae	Common Tern	<i>Sterna hirundo</i>	eBird HS
Charadriiformes	Scopoliacidae	American Woodcock	<i>Scolopax minor</i>	RG
Columbiformes	Columbidae	Mourning Dove	<i>Zenaidura macroura</i>	RG
Columbiformes	Columbidae	Rock Dove	<i>Columba livia</i>	RG
Coraciiformes	Alcedinidae	Belted Kingfisher	<i>Megaceryle alcyon</i>	Loyan survey
Falconiformes	Falconidae	Merlin	<i>Falco columbarius</i>	eBird HS
Falconiformes	Falconidae	Peregrine Falcon	<i>Falco peregrinus</i>	eBird HS NYS S3B (Vulnerable, Breeding), E (Endangered); Y (Species of Greatest Conservation Need)
Falconiformes	Falconidae	American Kestrel	<i>Falco sparverius</i>	eBird HS
Passeriformes	Cardinalidae	Scarlet Tanager	<i>Piranga olivacea</i>	RG
Passeriformes	Carduelinae	House Finch	<i>Haemorhous mexicanus</i>	eBird HS
Passeriformes	Certhiidae	Brown Creeper	<i>Certhia americana</i>	RG
Passeriformes	Corvidae	American Crow	<i>Corvus brachyrhynchos</i>	RG
Passeriformes	Corvidae	Fish crow	<i>Corvus ossifragus</i>	eBird HS
Passeriformes	Corvidae	Blue Jay	<i>Cyanocitta cristata</i>	RG
Passeriformes	Fringillidae	American Goldfinch	<i>Spinus tristis</i>	RG
Passeriformes	Hirundinidae	Barn Swallow	<i>Hirundo rustica</i>	eBird HS
Passeriformes	Hirundinidae	Purple Martin	<i>Progne subis</i>	eBird HS
Passeriformes	Icteridae	Red-winged Blackbird	<i>Agelaius phoeniceus</i>	RG
Passeriformes	Icteridae	Baltimore Oriole	<i>Icterus galbula</i>	Loyan survey
Passeriformes	Icteridae	Common Grackle	<i>Quiscalus quiscula</i>	RG
Passeriformes	Mimidae	Gray Catbird	<i>Dumetella carolinensis</i>	RG
Passeriformes	Mimidae	Northern Mockingbird	<i>Mimus polyglottos</i>	RG
Passeriformes	Mimidae	Brown Thrasher	<i>Toxostoma rufum</i>	Loyan survey
Passeriformes	Paridae	Tufted Titmouse	<i>Baeolophus bicolor</i>	eBird HS
Passeriformes	Parulidae	Common Yellowthroat	<i>Geothlypis trichas</i>	RG
Passeriformes	Parulidae	Nashville Warbler	<i>Leiothlypis ruficapilla</i>	eBird HS
Passeriformes	Parulidae	Black-and-white Warbler	<i>Mniotilla varia</i>	Loyan survey
Passeriformes	Parulidae	Ovenbird	<i>Seiurus aurocapilla</i>	Loyan survey
Passeriformes	Parulidae	Hooded Warbler	<i>Setophaga citrina</i>	Loyan survey
Passeriformes	Parulidae	Prairie Warbler	<i>Setophaga discolor</i>	Loyan survey
Passeriformes	Parulidae	Yellow Warbler	<i>Setophaga petechia</i>	Loyan survey
Passeriformes	Parulidae	American Redstart	<i>Setophaga ruticilla</i>	RG
Passeriformes	Parulidae	Blackpoll Warbler	<i>Setophaga striata</i>	eBird HS NYS S3B (Vulnerable, Breeding)
Passeriformes	Parulidae	Northern Parula	<i>Setophaga americana</i>	Loyan pers. NYS S3 (Vulnerable)
Passeriformes	Parulidae	Yellow-rumped Warbler	<i>Setophaga coronata</i>	RG
Passeriformes	Parulidae	Palm Warbler	<i>Setophaga palmarum</i>	RG NYS S2 (Imperiled); NYS S3B (Vulnerable, Breeding)
Passeriformes	Parulidae	Cape May Warbler	<i>Setophaga tigrina</i>	eBird HS
Passeriformes	Passerellidae	American Tree Sparrow	<i>Spizelloides arborea</i>	RG
Passeriformes	Passerellidae	Chipping Sparrow	<i>Spizella passerina</i>	RG
Passeriformes	Passerellidae	Field Sparrow	<i>Spizella pusilla</i>	Loyan survey
Passeriformes	Passerellidae	Dark-eyed Junco	<i>Junco hyemalis</i>	RG

Passeriformes	Passerellidae	<b>Eastern Towhee</b>	Pipilo erythrorthalmus	RG
Passeriformes	Passerellidae	<b>Fox Sparrow</b>	Passerella iliaca	eBird HS
Passeriformes	Passerellidae	<b>Savannah Sparrow</b>	Passerculus sandwichensis	eBird HS
Passeriformes	Passerellidae	<b>Song Sparrow</b>	Melospiza melodia	RG
Passeriformes	Passerellidae	<b>Swamp Sparrow</b>	Melospiza georgiana	eBird HS
Passeriformes	Passerellidae	<b>White-crowned Sparrow</b>	Zonotrichia leucophrys	eBird HS
Passeriformes	Passerellidae	<b>White-throated Sparrow</b>	Zonotrichia albicollis	RG
Passeriformes	Passeridae	<b>House Sparrow</b>	Passer domesticus	RG
Passeriformes	Polioptilidae	Blue-grey Gnatcatcher	Polioptila caerulea	eBird HS
Passeriformes	Regulidae	Golden-crowned Kinglet	Regulus satrapa	RG
Passeriformes	Regulidae	Ruby-crowned Kinglet	Regulus calendula	RG
Passeriformes	Sittidae	<b>White-breasted Nuthatch</b>	Sitta carolinensis	RG
Passeriformes	Sturnidae	<b>European Starling</b>	Sturnus vulgaris	RG
Passeriformes	Turdidae	<b>American Robin</b>	Turdus migratorius	RG
Passeriformes	Turdidae	Hermit Thrush	Catharus guttatus	RG
Passeriformes	Tyrannidae	<b>Eastern Phoebe</b>	Sayornis phoebe	eBird HS
Passeriformes	Tyrannidae	Eastern Kingbird	Tyrannus tyrannus	eBird HS
Passeriformes	Vireonidae	<b>Yellow-throated Vireo</b>	Vireo flavifrons	Loyan survey
Passeriformes	Vireonidae	<b>Red-eyed Vireo</b>	Vireo olivaceus	eBird HS
Passeriformes	Vireonidae	<b>Blue-headed Vireo</b>	Vireo solitarius	eBird HS
Piciformes	Picidae	<b>Downy Woodpecker</b>	Dryobates pubescens	eBird HS
Piciformes	Picidae	Northern Flicker	Colaptes auratus	eBird HS
Piciformes	Picidae	<b>Red-bellied Woodpecker</b>	Melanerpes carolinus	eBird HS No iNat ID
Piciformes	Picidae	<b>Yellow-bellied Sapsucker</b>	Sphyrapicus varius	Loyan pers. obs.
Suliformes	Phalacrocoracidae	<b>Double-crested Cormorant</b>	Phalacrocorax auritus	RG NYS S3 (Vulnerable)

**Bold = Included in LB surveys**

#### OTHER VERTEBRATES\_7

Order	Family	Common name	Species	Research Grade?
Didelphimorphia	Didelphidae	<b>Virginia Opossum</b>	Didelphis virginiana	(Melinda Pers. comm.)
Lagomorpha	Leporidae	<b>Eastern Cottontail</b>	Sylvilagus florianus	(Amy OK)
Rodentia	Muridae	<b>Brown Rat</b>	Rattus norvegicus	RG
Rodentia	Sciuridae	<b>Eastern Gray Squirrel</b>	Sciurus carolinensis	RG
Testudines	Emydidae	<b>Common Box Turtle</b>	Terrapene carolina	(Melinda Peri) IUCN Vulnerable; NYS S3 (Vulnerable), SC (Special Concern), Y-H (High Priority Species of Greatest Conservation Need)
Gobiesociformes	Gobiesocidae	<b>Skilletfish</b>	Gobiesox strumosus	RG
Perciformes	Moronidae	<b>Striped Bass</b>	Morone saxatilis	RG

#### INSECTS\_104

Order	Family	Common name	Species	Research Grade?
Coleoptera	Carabidae	<b>Pedunculate Ground Beetle</b>	Scartites (AB OK)	
Coleoptera	Cerambycidae	<b>Red Milkweed Beetle</b>	Tetraopes tetrophthalmus RG	on Asclepias syriaca
Coleoptera	Chrysomelidae	<b>Dogbane Leaf Beetle</b>	Chrysochus auratus RG	
Coleoptera	Chrysomelidae	<b>Spotted Cucumber Beetle</b>	Diabrotica undecimpunctata RG	
Coleoptera	Chrysomelidae	<b>Three-lined Potato Beetle</b>	Lema daturaphila (AB OK)	
Coleoptera	Chrysomelidae	<b>Large-horned Bruchid</b>	Megacerus discoidus (AB OK)	on Queen Anne's Lace at ERP; purple coneflower @ 6&B
Coleoptera	Coccinellidae	<b>Asian Lady Beetle</b>	Harmonia axyridis RG	
Coleoptera	Curculionidae	<b>Ant-like Weevil</b>	Myrmex (AB OK)	
Coleoptera	Lampyridae	<b>Firefly</b>		Jhunior pers. obs.
Coleoptera	Mordellidae	<b>Tumbling Flower Beetle</b>	Mordellina pustulata (AB OK)	
Coleoptera	Nitidulidae	<b>Yucca Nitidulid</b>	Carpophilus melanopterus (AB OK)	
Coleoptera	Scarabidae	<b>Japanese Beetle</b>	Popillia japonica RG	
Coleoptera	Scarabidae	<b>Scarab</b>	Scarabidae larvae (AB OK)	
Diptera	Asilidae	<b>Robber Fly</b>	Efferia aestuans (AB OK)	
Diptera	Bibionidae	<b>March Fly</b>	Dilophus spinipes? (OK)	
Diptera	Calliphoridae	<b>Greenbottle Fly</b>	Lucilia sericata (OK)	
Diptera	Dolichopodidae	<b>Long-legged Fly</b>	Maybe Condylostylus? (AB OK)	Maybe Condylostylus?
Diptera	Sarcophagidae	<b>Flesh Fly</b>	Sarcophaga (AB OK)	
Diptera	Syrphidae	<b>Oblique Stripetail Hover Fly</b>	Allograpta obliqua RG	
Diptera	Syrphidae	<b>European Drone Fly</b>	Eristalis arbustorum RG	
Diptera	Syrphidae	<b>Black-shouldered Drone Fly</b>	Eristalis dimidiata RG	
Diptera	Syrphidae	<b>Drone Fly</b>	Eristalis tenax RG	
Diptera	Syrphidae	<b>Transverse Flower Fly</b>	Eristalis transversa (AB OK)	

Diptera	Syrphidae	Drone Fly	Eumerus	(OK)	
Diptera	Syrphidae	American Hover Fly	Eupeodes americanus	(AB OK)	
Diptera	Syrphidae	Narrow-headed Marsh Fly	Helophilus fasciatus	RG	
Diptera	Syrphidae	Narcissus Bulb Fly	Merodon equestris	AB reasonable guess	
Diptera	Syrphidae	Thick-legged Hover Fly	Syritta pipiens	(AB OK)	
Diptera	Syrphidae	Eastern Hornet Fly	Spilomyia longicornis	RG	
Diptera	Syrphidae	Eastern Calligrapher	Toxomerus geminatus	RG	
Diptera	Syrphidae	Margined Calligrapher	Toxomerus marginatus	RG	
Diptera	Syrphidae	Maize Calligrapher	Toxomerus politus	RG	Captain Brown
Diptera	Tephritisidae	Canadian Thistle Gall Fly	Urophora	(AB looks like <i>Urophora cardui</i> )	
Diptera	Ulidiidae	Picture-winged Fly	Delphinia picta	RG	Common on Asclepias; feeding on aphid honeydew?
Hemiptera	Aphididae	Oleander Aphid	Aphis nerii	RG	
Hemiptera	Berytidae	Stilt Bug		(AB OK)	
Hemiptera	Cicadellidae	Red-banded Leafhopper	Graphocephala coccinea	(AB OK)	
Hemiptera	Lygaeidae	Small Milkweed Bug	Lygaeus kalmii	(AB OK)	
Hemiptera	Lygaeidae	Large Milkweed Bug	Oncopeltus fasciatus	RG	
Hemiptera	Miridae	Clouded Plant Bug	Neurocolpus	(AB OK) Neur	Neurocolpus nubilus
Hemiptera	Miridae	Plant Bug	Tupiocoris rhododendri	(AB OK)	Rhododendron
Hemiptera	Rhynchosciidae	Dirt-colored Seed Bug	Ozophora	(AB OK?)	
Hemiptera	Thyreocoridae	Ebony bug	Corimelaena?	(AB OK)	
Hymenoptera	Apidae	Western Honey Bee	Apis mellifera	RG	
Hymenoptera	Apidae	Golden Northern Bumble Bee	Bombus fervidus	RG but locali	IUCN vulnerable; State S1 (Critically imperiled), Y-H (High Priority Species of Greatest Conservation Need)
Hymenoptera	Apidae	Brown-belted Bumble Bee	Bombus griseocollis	RG	
Hymenoptera	Apidae	Common Eastern Bumble Bee	Bombus impatiens	RG	
Hymenoptera	Apidae	Two-spotted Long-horned Bee	Melissodes bimaculatus	RG	
Hymenoptera	Apidae	Long-horned bee	Eumelissodes sp.	(Ascher)	
Hymenoptera	Apidae	Cuckoo Bee	Tripeolus lunatus	RG	
Hymenoptera	Apidae	Eastern Carpenter Bee	Xylocopa virginica	RG	
Hymenoptera	Crabonidae	Stink Bug Hunter Wasp	Bicyrtes quadrifasciatus	RG	
Hymenoptera	Crabonidae	Weevil Wasps	Cerceris nigrescens	(AB OK)	
Hymenoptera	Formicidae	Eastern Black Carpenter Ant	Camponotus pennsylvanicus	RG	
Hymenoptera	Formicidae	Small Honey Ant	Prenolepis imparis	RG	
Hymenoptera	Formicidae	Immigrant Pavement Ant	Tetramorium immigrans	RG	
Hymenoptera	Halictidae	Bicolored Striped Sweat Bee	Agapostemon virescens	RG	
Hymenoptera	Megachilidae	European Wool Carder Bee	Anthidium manicatum	RG	
Hymenoptera	Megachilidae	Cuckoo Leaf-cutter Bee	Coelioxys	(Ascher)	
Hymenoptera	Megachilidae	Texas Leaf-cutter Bee	Megachile texana	RG	
Hymenoptera	Megachilidae	Sculptured Resin Bee	Megachile sculpturalis	RG	
Hymenoptera	Scoliidae	Blue-winged Scoliid Wasp	Scolia dubia	RG	
Hymenoptera	Sphecidae	Elegant Grass-carrying Wasp	Isodontia elegans	(AB OK)	
Hymenoptera	Sphecidae	Thread-waisted wasp	Prionyx parkeri	(AB OK)	
Hymenoptera	Sphecidae	Great Golden Digger Wasp	Sphecodes ichneumoneus	RG	
Hymenoptera	Sphecidae	Great Black Digger Wasp	Sphecodes pensylvanicus	RG	
Hymenoptera	Vespidae	Bald-faced Aerial Yellowjacket	Dolichovespula maculata	RG	
Hymenoptera	Vespidae	Four-toothed Mason Wasp	Monobia quadridens	RG	
Hymenoptera	Vespidae	European Paper Wasp	Polistes dominula	RG	
Hymenoptera	Vespidae	Ground Yellowjackets	Vespa	(OK)	Vespa germanica?
Lepidoptera	Attevidae	Atteva aurea	Ailanthus webworm	RG	
Lepidoptera	Erebidae	Sycamore Tussock Moth	Halysidota harrisii	RG	
Lepidoptera	Erebidae	Fall Webworm Moth	Hyphantria cunea	RG	
Lepidoptera	Erebidae	Isabella Tiger Moth	Pyrrharctia isabella	RG	
Lepidoptera	Hesperiidae	Sachem	Atalopedes campestris	RG	
Lepidoptera	Hesperiidae	Silver-spotted Skipper	Erynnis tages	RG	
Lepidoptera	Hesperiidae	Wild Indigo Duskywing	Erynnis baptisiae	RG	
Lepidoptera	Hesperiidae	Common Sootywing	Pholisora catullus	RG	
Lepidoptera	Lycaenidae	Summer Azure	Celastrina neglecta	(AB OK)	
Lepidoptera	Noctuidae	Adjutant Wainscot Moth	Leucania adjuta	RG	
Lepidoptera	Nymphalidae	Monarch	Danaus plexippus	RG	
Lepidoptera	Nymphalidae	Common Buckeye	Junonia coenia	RG	
Lepidoptera	Nymphalidae	Pearl Crescent	Phyciodes tharos	RG	
Lepidoptera	Nymphalidae	Question Mark	Polygonia interrogationis	RG	
Lepidoptera	Nymphalidae	Red Admiral	Vanessa atalanta	RG	
Lepidoptera	Nymphalidae	Painted Lady	Vanessa cardui	RG	
Lepidoptera	Nymphalidae	American Lady	Vanessa virginiensis	RG	

Lepidoptera	Papilionidae	Eastern Tiger Swallowtail	Papilio glauca	RG
Lepidoptera	Papilionidae	Black Swallowtail	Papilio polyxenes	RG
Lepidoptera	Papilionidae	Spicebush Swallowtail	Papilio troilus	RG
Lepidoptera	Pieridae	Orange Sulphur	Colias eurytheme	RG
Lepidoptera	Pieridae	Cabbage White	Pieris rapae	RG
Lepidoptera	Pterophoridae	Morning-glory Plume Moth	Emmelina monodactyla	(AB OK)
Lepidoptera	Saturniidae	Luna Moth	Actias luna	Melinda pers. obs.
Lepidoptera	Sphingidae	Nessus Sphinx	Amphion floridensis	RG
Mantodea	Mantidae	European Mantis	Mantis religiosa	RG
Mantodea	Mantidae	Chinese Mantis	Tenodera sinensis	RG
Neuropterida	Chrysopidae	Common Green Lacewing	Chrysoperla	(AB OK)
Odonata	Coenagrionidae	Familiar Bluet	Enallagma	(AB OK Enal Enallagma civile?)
Odonata	Libellulidae	Blue Dasher	Pachydipax longipennis	RG
Odonata	Libellulidae	Painted Skimmer	Libellula semifasciata	RG
Orthoptera	Acrididae	Differential Grasshopper	Melanoplus differentialis	RG
Orthoptera	Gryllidae	Cricket (maybe Restless Bush)		(AB OK)
Orthoptera	Tettigoniidae	Angle-winged katydids	Microcentrum	(AB OK)

#### OTHER ARTHROPODS\_12

Order	Family	Common name	Species	Research Grade?
Araneae	Salticidae	Bold Jumping Spider	Phidippus audax	RG
Araneae	Salticidae	Hakka	Hakka himeshimensis	RG
Acarı	Trombididae	True Velvet mites	Trombidium	(OK)
Isopoda	Armadillidiidae	Common Pill Woodlouse	Armadillidium vulgare	RG
Decapoda	Palaeomonidae	Caridean Shrimp	Palaeomonetes	(OK)
Decapoda	Portunidae	Atlantic Blue Crab	Callinectes sapidus	RG
Decapoda	Varunidae	Asian Shore Crab	Hemigrapsus sanguineus	RG
Bivalvia	Veneridae	Hard Clam	Mercenaria mercenaria	RG
Bivalvia	Mytilidae	Blue Mussel	Mytilus edulis	RG
Gastropoda	Muricidae	Eastern Oyster Drill	Urosalpinx cinerea	RG
Anellida	Lumbricidae	Common Earthworm	Lumbricus terrestris	(OK?)
Canalipalpata	Serpulidae	Serpulid Tubeworms	Serpulidae	(OK?)

#### FUNGI\_LICHENS\_16

Order	Family	Common name	Species	Research Grade?
Agaricales	Agaricaceae	Green-spored Parasol	Chlorophyllum molybdites	RG
Agaricales	Marasmiaceae	Fairy Ring Marasmius	Marasmius oreades	RG
Agaricales	Pleurotaceae	Oyster Mushroom	Pleurotus ostreatus	RG
Agaricales	Psathyrellaceae	Mica Cap	Coprinellus micaceus	RG
Agaricales	Psathyrellaceae	Pale Brittlestem	Psathyrella candelleana	RG
Agaricales	Strophariaceae	Wine-cap Stropharia	Stropharia rugosoannulata	RG
Agaricales	Tubariaceae	Scurfy Twiglet	Tubaria furfuracea	RG
Boletales	Sclerodermataceae	Common Earthball	Scleroderma citrinum	RG
Hymenochaetales	Hymenochaetaceae	Oak Bracket	Pseudoinonotus dryadeus	RG
Hypocreales	Nectriaceae	Tree Slime Fungus	Fusicolla	(OK)
Polyporales	Ganodermataceae	Bracket	Ganoderma sessile	RG
Polyporales	Polyporaceae	Chicken of the Woods	Laetiporus sulphureus	RG
Polyporales	Polyporaceae	Turkey-Tail	Trametes versicolor	RG
Xylariales	Xylariaceae	Dead Man's Fingers	Xylaria polymorpha	(OK)
Candellariales	Candellariaceae	Candleflame Lichen	Candellaria concolor	RG

#### PLANTS\_213

Higher Taxon	Family	Common name	Species	Research Grade?
Fucales	Fucaceae	Rockweed	Fucus distichus	RG
Chlorophyta		Green Algae	Chlorophyta	(OK)
Polypodiales	Dennstaedtiaceae	Hay-scented Fern	Dennstaedtia punctilobula	RG
Polypodiales	Pteridaceae	Northern Maidenhair Fern	Adiantum pedatum	RG
Polypodiales	Onocleaceae/Dryo	Ostrich Fern	Matteuccia struthiopteris	RG
Polypodiales	Dryopteridaceae	Christmas Fern	Polystichum acrostichoides	RG
Pinales	Cupressaceae	Eastern Redcedar	Juniperus virginiana	RG
Pinales	Cupressaceae	Northern Whitecedar	Thuja occidentalis	(Amy OK)
Pinales	Pinaceae	Red Pine	Pinus resinosa	RG

Pinales	Pinaceae	Scots Pine Douglas fir	<i>Pinus sylvestris</i> <i>Pseudotsuga menziesii</i>	RG (Amy OK)	
Apiales	Apiaceae	Queen Anne's Lace	<i>Daucus carota</i>	RG	
Apiales	Apiaceae	Rattlesnake Master	<i>Eryngium yuccifolium</i>	RG	
Aquifoliales	Aquifoliaceae	Gallberry	<i>Ilex glabra</i>	RG	
Aquifoliales	Aquifoliaceae	American Holly	<i>Ilex opaca</i>	RG	
Aquifoliales	Aquifoliaceae	Winterberry Holly	<i>Ilex verticillata</i>	From FLICKER (Amy OK)	
Asterales	Asteraceae	Yarrow	<i>Achillea</i>		
Asterales	Asteraceae	White Snakeroot	<i>Ageratina altissima</i>	RG	
Asterales	Asteraceae	Common Ragweed	<i>Ambrosia artemisiifolia</i>	RG	
Asterales	Asteraceae	Greater Burdock	<i>Arctium lappa</i>	(Amy OK)	
Asterales	Asteraceae	Lesser Burdock	<i>Arctium minus</i>	RG	
Asterales	Asteraceae	Common Mugwort	<i>Artemisia vulgaris</i>	RG	
Asterales	Asteraceae	Groundsel Tree	<i>Baccharis halimifolia</i>	RG	
Asterales	Asteraceae	Tall Beggarticks	<i>Bidens vulgata</i>	RG	
Asterales	Asteraceae	Chicory	<i>Cichorium intybus</i>	RG	
Asterales	Asteraceae	Creeping Thistle	<i>Cirsium arvense</i>	RG	
Asterales	Asteraceae	Bull Thistle	<i>Cirsium vulgare</i>	RG	
Asterales	Asteraceae	Whorled Coreopsis	<i>Coreopsis verticillata</i>	RG	
Asterales	Asteraceae	Purple Coneflower	<i>Echinacea purpurea</i>	RG	
Asterales	Asteraceae	False Daisy	<i>Eclipta prostrata</i>	RG	
Asterales	Asteraceae	Horseweed	<i>Erigeron canadensis</i>	RG	
Asterales	Asteraceae	Philadelphia Fleabane	<i>Erigeron philadelphicus</i>	RG	
Asterales	Asteraceae	Spotted Joe-Pye Weed	<i>Eutrochium maculatum</i>	RG	
Asterales	Asteraceae	Shaggy Soldier	<i>Galinsoga quadriradiata</i>	RG	
Asterales	Asteraceae	Common Sneezeweed	<i>Helenium autumnale</i>	RG	
Asterales	Asteraceae	Pineapple-weed	<i>Matricaria discoidea</i>	RG	
Asterales	Asteraceae	Black-eyed Susan	<i>Rudbeckia hirta</i>	RG	
Asterales	Asteraceae	Great Coneflower	<i>Rudbeckia maxima</i>	(OK AMY)	
Asterales	Asteraceae	Common Groundsel	<i>Senecio vulgaris</i>	RG	
Asterales	Asteraceae	Seaside Goldenrod	<i>Solidago sempervirens</i>	RG	
Asterales	Asteraceae	Stoke's Aster	<i>Stokesia</i>	(OK AMY)	
Asterales	Asteraceae	Smooth Blue Aster	<i>Symphotrichum laeve</i>	(Probably)	
Asterales	Asteraceae	New England Aster	<i>Symphotrichum novae-angliae</i>	RG	
Asterales	Asteraceae	Common Dandelion	<i>Taraxacum officinale</i>	RG	
Asterales	Asteraceae	New York Ironweed	<i>Vernonia noveboracensis</i>	RG	
Asterales	Asteraceae	Rough Cocklebur	<i>Xanthium strumarium</i>	RG	
Asterales	Campanulaceae	Tall Bellflower	<i>Campanulastrum americanum</i>	RG	
Asterales	Campanulaceae	Cardinal Flower	<i>Lobelia cardinalis</i>	RG	
Boraginales	Boraginaceae	Borage	<i>Borago officinalis</i>	RG	
Boraginales	Boraginaceae	Siberian Bugloss	<i>Brunnera macrophylla</i>	RG	
Boraginales	Boraginaceae	Virginia Bluebells	<i>Mertensia virginica</i>	RG	
Brassicaceae	Brassicaceae	Garlic Mustard	<i>Alliaria petiolata</i>	RG	
Brassicaceae	Brassicaceae	Shepherd's-Purse	<i>Capsella bursa-pastoris</i>	RG	
Brassicaceae	Brassicaceae	Hairy Bittercress	<i>Cardamine hirsuta</i>	RG	
Brassicaceae	Brassicaceae	Virginia Pepperweed	<i>Lepidium virginicum</i>	RG	
Caryophyllales	Amaranthaceae	Red Amaranth	<i>Amaranthus cruentus</i>	RG	
Caryophyllales	Caryophyllaceae	Procumbent Pearlwort	<i>Sagina procumbens</i>	RG	
Caryophyllales	Caryophyllaceae	White Campion	<i>Silene latifolia</i>	(Amy OK)	
Caryophyllales	Caryophyllaceae	Common Chickweed	<i>Stellaria media</i>	RG	
Caryophyllales	Phytolaccaceae	American Pokeweed	<i>Phytolacca americana</i>	RG	
Caryophyllales	Polygonaceae	Climbing False Buckwheat	<i>Fallopia scandens</i>	RG	
Caryophyllales	Polygonaceae	East Asian Smartweed	<i>Persicaria extremiorientalis</i>	RG	
Caryophyllales	Polygonaceae	Pale Smartweed	<i>Persicaria lapathifolia</i>	RG	
Caryophyllales	Polygonaceae	Low Smartweed	<i>Persicaria longiseta</i>	RG	
Caryophyllales	Polygonaceae	Lady's Thumb	<i>Persicaria maculosa</i>	(Probably)	
Caryophyllales	Polygonaceae	Curly Dock	<i>Rumex crispus</i>	(Probably)	
Caryophyllales	Portulacaceae	Common Purslane	<i>Portulaca oleracea</i>	RG	
Celastrales	Celastraceae	Winged Euonymus	<i>Euonymus alatus</i>	RG	
Celastrales	Celastraceae	Winter creeper	<i>Euonymus fortunei</i>	RG	
Cornales	Cornaceae	Kousa Dogwood	<i>Cornus kousa</i>	RG	
Cornales	Cornaceae	Cornelian Cherry	<i>Cornus mas</i>	RG	
Cornales	Cornaceae	Red Osier Dogwood	<i>Cornus sericea</i>	(OK)	
Cornales	Hydrangeaceae	Oakleaf Hydrangea	<i>Hydrangea quercifolia</i>	RG	

Dipsacales	Adoxaceae	Korean Spice Viburnum	Viburnum carlesii	(OK)
Dipsacales	Adoxaceae	Southern Arrowwood	Viburnum dentatum	RG
Dipsacales	Adoxaceae	Cranberry Viburnum	Viburnum opulus	RG
Dipsacales	Araliaceae	Blackhaw	Viburnum prunifolium	RG
Ericales	Clethraceae	Sweet Pepperbush	Clethra alnifolia	RG
Ericales	Diapensiaceae	Beetleweed	Galax urceolata	Needs ID
Ericales	Ericaceae	Bearberry	Arctostaphylos uva-ursi	RG
Ericales	Ericaceae	Catawba Rhododendron	Rhododendron catawbiense	Looks like a white cultivar with yellow bee guides
Ericales	Polemoniaceae	Jacob's Ladder	Polemonium reptans	Probably
Ericales	Primulaceae	Gooseneck Loosestrife	Lysimachia clethroides	RG
Ericales	Primulaceae	Eastern Shooting Star	Primula meadia	RG
Fabales	Fabaceae	Eastern Redbud	Cercis canadensis	RG
Fabales	Fabaceae	Partridge Pea	Chamaecrista fasciculata	RG
Fabales	Fabaceae	Honeylocust	Gleditsia triacanthos	NYC DDC
Fabales	Fabaceae	Black Medick	Medicago lupulina	(OK AMY)
Fabales	Fabaceae	White Sweetclover	Melilotus albus	RG
Fabales	Fabaceae	Yellow Sweetclover	Melilotus officinalis	(OK AMY)
Fabales	Fabaceae	Purple Crownvetch	Securigera varia	RG
Fabales	Fabaceae	Trailing Fuzzy-Bean	Strophostyles helvola	RG
Fabales	Fabaceae	Red Clover	Trifolium pratense	RG
Fabales	Fabaceae	White Clover	Trifolium repens	RG
Fabales	Fabaceae	Hairy Vetch	Vicia villosa	(OK AMY)
Fagales	Betulaceae	Birch	Betula	OK Betula
Fagales	Fagaceae	Swamp White Oak	Quercus bicolor	(OK AMY)
Fagales	Fagaceae	Pin Oak	Quercus palustris	RG
Fagales	Fagaceae	English Oak	Quercus robur	RG
Fagales	Fagaceae	Northern Red Oak	Quercus rubra	NYC DDC
Fagales	Myricaceae	Northern Bayberry	Morella pensylvanica	RG
Gentianales	Apocynaceae	Hemp Dogbane	Apocynum cannabinum	RG
Gentianales	Apocynaceae	Swamp Milkweed	Asclepias incarnata	RG
Gentianales	Apocynaceae	Common Milkweed	Asclepias syriaca	RG
Gentianales	Apocynaceae	Butterfly Milkweed	Asclepias tuberosa	RG
Gentianales	Loganiaceae	Indian Pink	Spigelia marilandica	(OK AMY)
Gentianales	Rubiaceae	Buttonbush	Cephaelanthus occidentalis	RG
Geriales	Geraniaceae	Wild Geranium	Geranium maculatum	RG
Lamiales	Bignoniaceae	American Trumpet Vine	Campsip radicans	(OK AMY)
Lamiales	Lamiaceae	Anise Hyssop	Agastache foeniculum	RG
Lamiales	Lamiaceae	Purple Beautyberry	Callicarpa dichotoma	RG
Lamiales	Lamiaceae	Ground-Ivy	Glechoma hederacea	(OK AMY)
Lamiales	Lamiaceae	Henbit Deadnettle	Lamium amplexicaule	RG
Lamiales	Lamiaceae	Red Deadnettle	Lamium purpureum	RG
Lamiales	Lamiaceae	Wild Bergamot	Monarda fistulosa	RG
Lamiales	Lamiaceae	Mountain Mint	Pycnanthemum muticum	RG
Lamiales	Oleaceae	White Fringetree	Chionanthus virginicus	RG
Lamiales	Oleaceae	Common Lilac	Syringa vulgaris	(OK AMY)
Lamiales	Paulowniaceae	Princess Tree	Paulownia tomentosa	RG
Lamiales	Plantaginaceae	Common Toadflax	Linaria vulgaris	RG
Lamiales	Plantaginaceae	Beardtongues	Penstemon	(OK AMY)
Lamiales	Plantaginaceae	Ribwort Plantain	Plantago lanceolata	RG
Lamiales	Plantaginaceae	Greater Plantain	Plantago major	RG
Lamiales	Plantaginaceae	Bird's-eye Speedwell	Veronica persica	RG
Lamiales	Plantaginaceae	Culver's Root	Veronicastrum virginicum	RG
Lamiales	Scrophulariaceae	Common Mullein	Verbascum thapsus	RG
Laurales	Lauraceae	Northern Spicebush	Lindera benzoin	RG
Laurales	Calycanthaceae	Carolina Sweetshrub	Calycanthus floridus	RG
Magnoliales	Magnoliaceae	Tulip Tree	Liriodendron tulipifera	RG
Magnoliales	Magnoliaceae	Saucer Magnolia	Magnolia x soulangeana	OK
Magnoliales	Magnoliaceae	Star Magnolia	Magnolia stellata	(OK AMY)
Malpighiales	Euphorbiaceae	Common Copperleaf	Acalypha rhomboidea	RG
Malpighiales	Euphorbiaceae	Spotted Spurge	Euphorbia maculata	RG
Malpighiales	Violaceae	Common Blue Violet	Viola sororia	RG
Malpighiales	Violaceae	Garden Pansy	Viola wittrockiana	RG
Malvales	Malvaceae	Velvetleaf	Abutilon theophrasti	RG
Malvales	Malvaceae	Winecup Mallow	Callirhoe involucrata	(Amy OK)

Malvales	Malvaceae	Swamp Rose Mallow	Hibiscus moscheutos	RG
Malvales	Malvaceae	Common Hibiscus	Hibiscus syriacus	RG
Malvales	Malvaceae	Dwarf Mallow	Malva neglecta	RG
Malvales	Malvaceae	Common Mallow	Malva sylvestris	(Amy OK)
Malvales	Malvaceae	Basswood	Tilia tomentosa	NYC DDC
Myrtales	Onagraceae	Beeblossom	Gaura	(Amy OK Guara)
Myrtales	Onagraceae	Common Evening-Primrose	Oenothera biennis	RG
Oxalidales	Oxalidaceae	Creeping Woodsorel	Oxalis corniculata	RG
Oxalidales	Oxalidaceae	Upright Yellow Woodsorel	Oxalis stricta	RG
Piperales	Aristolochiaceae	Canadian Wild Ginger	Asarum canadense	(Amy OK)
Proteales	Platanaceae	London Plane	Platanus ×	RG
Ranunculales	Berberidaceae	Twinleaf	Jeffersonia diphylla	RG
Ranunculales	Papaveraceae	Corydalis	Corydalis	(Amy OK Corydalis)
Ranunculales	Papaveraceae	Bloodroot	Sanguinaria canadensis	(Amy OK)
Ranunculales	Papaveraceae	Celandine Poppy	Stylophorum diphyllum	RG
Ranunculales	Papaveraceae	Dutchman's Breeches	Dicentra cucullaria	RG
Ranunculales	Ranunculaceae	Black Cohosh	Actaea racemosa	(Amy OK)
Ranunculales	Ranunculaceae	Sharp-lobed Hepatica	Anemone acutiloba	RG
Ranunculales	Ranunculaceae	Red Columbine	Aquilegia canadensis	RG
Ranunculales	Ranunculaceae	Autumn Clematis	Clematis terniflora	RG
Ranunculales	Ranunculaceae	Larkspur	Delphinium	(Amy OK Delphinium)
Ranunculales	Ranunculaceae	Winter aconite	Eranthis hyemalis	RG
Ranunculales	Ranunculaceae	Lesser Celandine	Ficaria verna	RG
Ranunculales	Ranunculaceae	Tall Meadow-Rue	Thalictrum pubescens	RG
Ranunculales	Ranunculaceae	Rue Anemone	Thalictrum thalictroides	RG
Rosales	Moraceae	Hairy Crabweed	Fatoua villosa	RG
Rosales	Moraceae	White Mulberry	Morus alba	RG
Rosales	Rosaceae	Common Serviceberry	Amelanchier arborea	(Amy OK)
Rosales	Rosaceae	Red Chokeberry	Aronia arbutifolia	RG
Rosales	Rosaceae	Goatsbeard	Aruncus dioicus	RG
Rosales	Rosaceae	Hawthorn	Crataegus	(Amy OK)
Rosales	Rosaceae	Shrubby Cinquefoil	Dasiphora fruticosa	RG
Rosales	Rosaceae	Bowman's Root	Gillenia trifoliata	RG
Rosales	Rosaceae	Indian Strawberry	Potentilla indica	RG
Rosales	Rosaceae	Sulphur Cinquefoil	Potentilla recta	RG
Rosales	Rosaceae	Black Cherry	Prunus serotina	RG
Rosales	Rosaceae	Callery Pear	Pyrus calleryana	RG
Rosales	Rosaceae	Rugosa Rose	Rosa rugosa	RG
Sapindales	Anacardiaceae	Smokebush	Cotinus coggygria	(OK)
Sapindales	Anacardiaceae	Fragrant Sumac	Rhus aromatica	RG
Sapindales	Anacardiaceae	Staghorn Sumac	Rhus typhina	RG
Sapindales	Anacardiaceae	Poison Ivy	Toxicodendron radicans	RG
Sapindales	Sapindaceae	Red Maple	Acer rubrum	(OK Amy)
Sapindales	Sapindaceae	Bottlebrush Buckeye	Aesculus parviflora	RG
Sapindales	Simaroubaceae	Tree of Heaven	Ailanthus altissima	RG
Saxifragales	Altingiaceae	American Sweetgum	Liquidambar styraciflua	RG
Saxifragales	Crassulaceae	Biting Stonecrop	Sedum acre	RG
Saxifragales	Crassulaceae	White Stonecrop	Sedum alba	(OK AMY)
Solanales	Convolvulaceae	Hedge Bindweed	Calystegia sepium	RG
Solanales	Convolvulaceae	Field Bindweed	Convolvulus arvensis	RG
Solanales	Convolvulaceae	Dodder	Cuscuta	(OK Amy)
Solanales	Convolvulaceae	Ivy-leaved Morning-Glory	Ipomoea hederacea	RG
Solanales	Convolvulaceae	Common Morning-Glory	Ipomoea purpurea	RG
Solanales	Solanaceae	Jimsonweed	Datura stramonium	RG
Solanales	Solanaceae	Carolina Horse-Nettle	Solanum carolinense	RG
Solanales	Solanaceae	Bittersweet Nightshade	Solanum dulcamara	RG
Solanales	Solanaceae	Black Nightshade	Solanum nigrum	RG
Vitales	Vitaceae	Virginia Creeper	Parthenocissus quinquefolia	RG
Vitales	Vitaceae	Japanese Creeper	Parthenocissus tricuspidata	(OK Amy)
Alismatales	Araceae	Jack-in-the-Pulpit	Arisaema triphyllum	RG
Asparagales	Asparagaceae	Hostas Genus	Hosta	(OK)
Asparagales	Asparagaceae	Siberian Squill	Othocallis siberica	RG
Asparagales	Asparagaceae	Scented Solomon's-Seal	Polygonatum odoratum	RG
Asparagales	Asphodelaceae	Orange Day-lily	Hemerocallis fulva	RG

Asparagales	Orchidaceae	Downy Rattlesnake Plantain	<i>Goodyera pubescens</i>	RG
Aspergales	Amarillidaceae	Wild Garlic	<i>Allium vineale</i>	RG
Aspergales	Amarillidaceae	Common Snowdrop	<i>Galanthus nivalis</i>	RG
Commelinaceales	Commelinaceae	Asiatic Dayflower	<i>Commelina communis</i>	RG
Commelinaceales	Commelinaceae	Bluejacket	<i>Tradescantia ohiensis</i>	RG
Liliales	Colchicaceae	Largeflower Bellwort	<i>Uvularia grandiflora</i>	RG
Liliales	Liliaceae	Yellow Trout Lily	<i>Erythronium americanum</i>	RG
Liliales	Melanthiaceae	Yellow Wakerobin	<i>Trillium luteum</i>	RG
Poales	Cyperaceae	Yellow Nutsedge	<i>Cyperus esculentus</i>	RG
Poales	Poaceae	Drooping Brome	<i>Bromus tectorum</i>	RG
Poales	Poaceae	Chinese Silver Grass	<i>Miscanthus sinensis</i>	RG
Poales	Poaceae	Common Reed	<i>Phragmites australis</i>	RG