

APPENDIX B:
Natural Resources

Table 7-1
Vegetation Identified within the Study Area

Common Name	Scientific Name	Stratum
Sugar maple	<i>Acer saccharum</i>	Tree
Wild onion	<i>Allium</i> sp	Herb
New York aster	<i>Aster novi-belgii</i>	Herb
Astilbe	<i>Astilbe chinensis</i>	Herb
Painted fern	<i>Athyrium</i> sp	Herb
Barberry	<i>Berberis</i> sp	Shrub
Boxwood	<i>Buxus</i> sp	Shrub
Hedge bindweed	<i>Calystegia sepium</i>	Herb
Sedge	<i>Carex</i> sp	Herb
Hackberry	<i>Celtis occidentalis</i>	Tree
Eastern redbud	<i>Cercis canadensis</i>	Tree
Lamb's quarters	<i>Chenopodium album</i>	Herb
Kousa dogwood	<i>Cornus kousa</i>	Shrub
Barrenwort	<i>Epimedium</i> sp	Herb
Euonymus	<i>Euonymus</i> sp	Shrub
White wood aster	<i>Eurybia divaricata</i>	Herb
Ginkgo	<i>Ginkgo biloba</i>	Tree
Honey locust	<i>Gleditsia triacanthos</i>	Tree
English ivy	<i>Hedera helix</i>	Vine
Daylily	<i>Heemerocallis</i> sp	Herb
Coral bells	<i>Heuchera</i> sp	Herb
Hostas	<i>Hosta</i> sp	Herb
Chameleon plant	<i>Houttuynia cordata</i>	Herb
Hydrangea	<i>Hydrangea</i> sp	Shrub
Holly	<i>Ilex</i> sp	Shrub
Eastern red cedar	<i>Juniperus virginiana</i>	Tree
Crepe myrtle	<i>Lagerstroemia</i> sp	Shrub
Yellow archangel	<i>Lamium galeobdolon</i>	Herb
Bleeding heart	<i>Lamprocapnos spectabilis</i>	Herb
Bay laurel	<i>Laurus nobilis</i>	Shrub
Ligularia	<i>Ligularia</i> sp	Herb
Privet	<i>Ligustrum</i> sp	Shrub
Lily	<i>Lilium</i> sp	Herb
Lilyturf	<i>Liriope</i> sp	Herb
Tartarian honeysuckle	<i>Lonicera tatarica</i>	Shrub
Japanese stiltgrass	<i>Microstegium vimineum</i>	Herb

White mulberry	<i>Morus alba</i>	Tree
Heavenly bamboo	<i>Nandina</i> sp	Herb
Daffodil	<i>Narcissus</i> sp	Herb
Sensitive fern	<i>Onoclea sensibilis</i>	Herb
Cinnamon fern	<i>Osmunda cinnamomea</i>	Herb
Interrupted fern	<i>Osmunda claytonia</i>	Herb
Regal fern	<i>Osmunda regalis</i>	Herb
Common yellow woodsorrel	<i>Oxalis stricta</i>	Herb
Pachysandra	<i>Pachysandra</i> sp	Herb
Virginia creeper	<i>Parthenocissus quinquefolia</i>	Vine
Lady's thumb	<i>Persicaria maculosa</i>	Herb
Pokeweed	<i>Phytolacca americana</i>	Herb
Clearweed	<i>Pilea pumila</i>	Herb
Common plantain	<i>Plantago major</i>	Herb
London planetree	<i>Platanus acerfolia</i>	Tree
Kentucky bluegrass	<i>Poa pratensis</i>	Herb
Christmas fern	<i>Polystichum acrostichoides</i>	Herb
Cinquefoil	<i>Potentilla</i> sp	Herb
Cherry laurel	<i>Prunus caroliniana</i>	Tree
Pin oak	<i>Quercus palustris</i>	Tree
Willow oak	<i>Quercus phellos</i>	Tree
Red oak	<i>Quercus rubra</i>	Tree
Black locust	<i>Robinia pseudoacacia</i>	Tree
Rose	<i>Rosa</i> sp	Shrub
Curly dock	<i>Rumex crispus</i>	Herb
Black nightshade	<i>Solanum nigrum</i>	Herb
Chinese scholar tree	<i>Styphnolobium japonicum</i>	Tree
Common dandelion	<i>Taraxacum officinale</i>	Herb
Yew	<i>Taxus</i> sp	Shrub
New York fern	<i>Thelypteris noveboracensis</i>	Herb
Foamflower	<i>Tiarella cordifolia</i>	Herb
American basswood	<i>Tilia americana</i>	Tree
Littleleaf linden	<i>Tilia cordata</i>	Tree
Tulip	<i>Tulipa</i> sp	Herb
American elm	<i>Ulmus americana</i>	Tree
English elm	<i>Ulmus procera</i>	Tree
Siberian elm	<i>Ulmus pumila</i>	Tree
Arrowwood	<i>Viburnum dentatum</i>	Shrub
Common blue violet	<i>Viola sororia</i>	Herb

Maple leaf viburnum	<i>Virburnum acerfolium</i>	Shrub
Possumhaw	<i>Virburnum nudum</i>	Shrub
Notes: Boldface type denotes New York state-listed endangered species.		
Sources: AKRF, Inc. reconnaissance investigations on February 22, 2016 and August 12, 2016.		

Table 7-2
NYS Breeding Bird Atlas 2000-2005 for
Blocks 5851A and 5851C

Common Name	Scientific Name
American Crow	<i>Corvus brachyrhynchos</i>
American Kestrel	<i>Falco sparverius</i>
American Robin	<i>Turdus migratorius</i>
Baltimore Oriole	<i>Icterus galbula</i>
Barn Swallow	<i>Hirundo rustica</i>
Blue Jay	<i>Cyanocitta cristata</i>
Canada Goose	<i>Branta canadensis</i>
Carolina Wren	<i>Thryothorus ludovicianus</i>
Cedar Waxwing	<i>Bombycilla cedrorum</i>
Chimney Swift	<i>Chaetura pelagica</i>
Common Grackle	<i>Quiscalus quiscula</i>
Double-crested Cormorant	<i>Phalacrocorax auritus</i>
Downy Woodpecker	<i>Picoides pubescens</i>
Eastern Kingbird	<i>Tyrannus tyrannus</i>
Eastern Screech-Owl	<i>Megascops asio</i>
Eastern Towhee	<i>Pipilo erythrophthalmus</i>
Eastern Wood-Pewee	<i>Contopus virens</i>
European Starling	<i>Sturnus vulgaris</i>
Gadwall	<i>Anas strepera</i>
Gray Catbird	<i>Dumetella carolinensis</i>
Great Crested Flycatcher	<i>Myiarchus crinitus</i>
Green Heron	<i>Butorides virescens</i>
Hairy Woodpecker	<i>Picoides villosus</i>
Herring Gull	<i>Larus argentatus</i>
House Finch	<i>Carpodacus mexicanus</i>
House Sparrow	<i>Passer domesticus</i>
House Wren	<i>Troglodytes aedon</i>
Mallard	<i>Anas platyrhynchos</i>
Mourning Dove	<i>Zenaida macroura</i>
Mute Swan	<i>Cygnus olor</i>
Northern Cardinal	<i>Cardinalis cardinalis</i>
Northern Flicker	<i>Colaptes auratus</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Orchard Oriole	<i>Icterus spurius</i>
Peregrine Falcon	<i>Falco peregrinus</i>
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>

Red-eyed Vireo	<i>Vireo olivaceus</i>
Red-tailed Hawk	<i>Buteo jamaicensis</i>
Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Rock Pigeon	<i>Columba livia</i>
Song Sparrow	<i>Melospiza melodia</i>
Tree Swallow	<i>Tachycineta bicolor</i>
Tufted Titmouse	<i>Baeolophus bicolor</i>
Warbling Vireo	<i>Vireo gilvus</i>
White-breasted Nuthatch	<i>Sitta carolinensis</i>
Wood Thrush	<i>Hylocichla mustelina</i>
Notes: Bold face type denotes NYS-listed endangered species	
Sources: 2000-2005 NYS Breeding Bird Atlas for Blocks 5851A and 5851C	

Table 7-3
New York State Herp Atlas Project (1990-1999)
Central Park USGS Quadrangle

Common Name	Scientific Name
Spotted salamander	<i>Ambystoma maculatum</i>
Eastern American toad	<i>Bufo americanus</i>
Fowler's toad	<i>Bufo fowleri</i>
Common snapping turtle	<i>Chelydra serpentina</i>
Painted turtle	<i>Chrysemys picta</i>
Northern two-lined salamander	<i>Eurycea bislineata</i>
Gray treefrog	<i>Hyla versicolor</i>
Northern redback salamander	<i>Plethodon cinereus</i>
Italian wall lizard	<i>Podarcis sicula</i>
Northern spring peeper	<i>Pseudacris crucifer</i>
Eastern red belly turtle	<i>Pseudemys rubriventris</i>
Bullfrog	<i>Rana catesbeiana</i>
Green frog	<i>Rana clamitans</i>
Wood frog	<i>Rana sylvatica</i>
Northern brown snake	<i>Storeria dekayi</i>
Eastern box turtle	<i>Terrapene carolina</i>
Red-eared slider	<i>Trachemys scripta elegans</i>
Notes: Boldface type denotes NYS-listed species of special concern	
Sources: New York State Herp Atlas Project (1990-1999) for the Central Park USGS Quadrangle	

REFERENCES

- Able, K.P. 1970. A radar study of the altitude of nocturnal passerine migration. *Bird-Banding* 41:282-290.
- Cornell University. 2015. Bird guide for Red-tailed Hawk. Available from: https://www.allaboutbirds.org/guide/Red-tailed_Hawk/id

- Edinger, G.J., D.J. Evans, S. Gebauer, T.G. Howard, D.M. Hunt, and A.M. Olivero. 2014. Ecological Communities of New York State, Second Edition. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.
- Gelb, Y., and N. Delacretaz. 2006. Avian window strike mortality at an urban office building. *Kingbird* 56:190-198.
- Gelb, Y., and N. Delectretaz. 2009. Windows and vegetation: primary factors in Manhattan bird collisions. *Northeastern Naturalist* 16:455-470.
- Gleason, Henry A. and A. Cronquist. 1963. Manual of Vascular Plants of Northeastern United States and Adjacent Canada. D. Van Nostrand Company, New York.
- Hager, S.B., H. Trudell, K.J. McKay, S.M. Crandall, and L. Mayer. 2008. Bird density and mortality at windows. *Wilson Journal of Ornithology* 120:550-564.
- Kerlinger, P. 2000. Avian mortality at communications towers: A review of recent literature, research, and methodology. Report prepared for the U.S. Fish and Wildlife Service by Curry and Kerlinger, LLC, Cape May Point, NJ.
- Klem, D. Jr., C. J. Farmer, N. Delacretaz, Y. Gelb and P.G. Saenger. 2009. Architectural and landscape risk factors associated with bird-glass collisions in an urban environment. *Wilson Journal of Ornithology* 121: 126-134.
- Longcore, T., C. Rich, and S.A. Gautreaux, Jr. 2008. Height, guy wires, and steady-burning lights increase hazard of communication towers to nocturnal migrants: A review and meta-analysis. *Auk* 125:485-492.
- Loss S.R., T. Will, S.S. Loss, and P.P. Marra. 2014. Bird-building collisions in the United States: Estimates of annual mortality and species vulnerability. *Condor* 116:8-23.
- Loucks, Barbara. "Raptors of New York: A Sampler." *New York State Conservationist* (October 1999). New York State Department of Environmental Conservation. Available from: http://www.dec.ny.gov/docs/administration_pdf/raptors.pdf
- Mabee, T.J., and B.A. Cooper. 2004. Nocturnal bird migration in northeastern Oregon and southeastern Washington. *Northwestern Naturalist* 85:39-47.
- Mabee, T.J., B.A. Cooper, J.H. Plissner, and D.P. Young. 2006. Nocturnal bird migration over an Appalachian ridge at a proposed wind power project. *Wildlife Society Bulletin* 34: 682-690.
- New York City Audubon. 2008. Red-tailed Hawks in NYC. Available from: <http://www.nycaudubon.org/red-tailed-hawks-in-nyc>
- New York City Department of Environmental Protection (NYCDEP). 2011 Peregrine Falcons in New York City. Available: <http://www.nyc.gov/html/dep/html/news/falcon.shtml> (accessed on May 2, 2011).
- New York Natural Heritage Program. 2015. Online Conservation Guide for *Quercus phellos*. Available from: <http://acris.nynhp.org/guide.php?id=9078>. Accessed February 18th, 2016.
- O'Connell, T. J. 2001. Avian window strike mortality at a suburban office park. *Raven* 72(2):141-149.
- Peper, P.J., E.G. McPherson, J. R. Simpson, S.L. Gardner, K.E. Vargas, and Q. Xiao. 2007. New York City, New York Municipal Forest Resource Analysis. Center for Urban Forest Research, USDA Forest Service, Pacific Southwest Research Station. New York, NY.

Sloan, A. 2007. Migratory bird mortality at the World Trade Center and World Financial Center, 1997-2001: A deadly mix of lights and glass. *Transactions of the Linnaean Society of New York* 10: 183-204.

White, C. M., N. J. Clum, T. J. Cade, and W. G. Hunt. 2002. Peregrine Falcon (*Falco peregrinus*). In *The Birds of North America* No. 660 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA. Available: http://www.allaboutbirds.org/guide/Peregrine_Falcon/id (accessed on May 17, 2011).

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March 09, 2016

Jesse Moore
AKRF, Inc.
440 Park Ave South, 7th Floor
New York, NY 10016

Re: American Museum of Natural History Richard Gilder Center, Theodore Roosevelt Park
Town/City: City Of New York. County: New York.

Dear Jesse Moore:

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

We have no records of rare or state-listed animals or plants, or significant natural communities at your site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage Database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

A handwritten signature in black ink that reads "Nick Conrad".

Nicholas Conrad
Information Resources Coordinator
New York Natural Heritage Program