

Appendix D
Natural Resources Correspondence



Environmental and Planning Consultants

440 Park Avenue South
7th Floor
New York, NY 10016
tel: 646 388-9773
fax: 212 779-9721
www.akrf.com

June 8, 2012

The New Jersey Natural Heritage Program
DEP-Office of Natural Lands Management
P.O. Box 420
501 E. State Street
Station Plaza #5, 4th Floor
Trenton, NJ 08625-0420

**Re: Threatened or Endangered Species Request, Hudson-Bergen Light Rail Route 440
Extension Project, Jersey City, Hudson County, New Jersey**

Dear New Jersey Natural Heritage Program:

NJ Transit, using federal funds provided by the Federal Transit Administration (FTA), proposes to extend the exiting Hudson-Bergen Light Rail Line (HBLR) approximately 3,700 feet between West Side Avenue Station and a new station to be built west of NJ Route 440 near the Hackensack River waterfront. The project includes construction of an elevated viaduct, one new station, and alterations to the existing West Side Avenue Station and adjoining HBLR park-and-ride lot (see attached USGS quad map).

AKRF has been retained as a consultant to NJ Transit to prepare an Environmental Assessment (EA) under the National Environmental Policy Act (NEPA). In support of this effort, I am writing to request information on federal and/or state listed threatened and endangered species, species of special concern and habitats of special concern in and around the proposed Hudson-Bergen Light Rail Route 440 Extension project.

The information provided by NJNHP will be used for the environmental evaluations as part of the EA. However, map(s) showing specific locations of sensitive species or habitats developed from lists provided by NJNHP will not be published in any document. Please send the requested information to the address indicated above and do not hesitate to contact me at 646-388-9773 should questions arise. Thank you in advance for your assistance in providing this information.

Sincerely,

A handwritten signature in blue ink that reads "Jesse Moore".

AKRF, INC.
Jesse Moore
Natural Resources Specialist

cc: Jeremy Colangelo-Bryan, Dara Callender (NJ Transit); Dina Rybak, Julie Cowing (AKRF)



State of New Jersey
Department of Environmental Protection
Natural Heritage Data Request Form
 The New Jersey Natural Heritage Program
 DEP-Office of Natural Lands Management
Mail Code 501-04
 P.O. Box 420
 501 E. State Street
 Station Plaza #5, 4th Floor
 Trenton, New Jersey 08625-0420
 (609) 984-1339
 Fax No.: (609) 984-1427



PLEASE PRINT AND SUBMIT COMPLETED FORM WITH ATTACHMENTS TO THE ADDRESS ABOVE
 (Fields shown in bold font must be completed in order for data request to be processed.)

1. **Name:** Jesse Moore Agency/Company: AKRF, Inc.
Address: 440 Park Avenue South **City:** New York
State: NY **Zip:** 10016 **Daytime Phone:** (646) 388.9773 **Ext.:** _____
 Cell Phone: _____ **Email:** jmoore2@akrf.com

2. **Project Name:** Hudson-Bergen Light Rail Route 440 Extension
Municipality(ies): Jersey City **County(ies):** Hudson
Block(s): 1) 21802, 2)1775.1, 3)1290.A, **Lot(s):** 1) 2, 2) 83, 3) A.1, 2.E
 N.A.D. 1983 State Plane Coordinates (feet) 6 digits only: **E (x):** 604825 **N (y):** 686000

3. **Project Description:** NJ TRANSIT, using federal funds provided by the Federal Transit Administration (FTA), proposes to extend the exiting Hudson-Bergen Light Rail Line (HBLR) approximately 3,700 feet between West Side Avenue Station and a new station to be built west of NJ Route 440 near the Hackensack River waterfront. The project includes construction of an elevated viaduct, one new station, and alterations to the existing West Side Avenue Station and adjoining HBLR park-and-ride lot.

4. **USGS Quad:** A copy of a USGS quad map(s) that clearly indicates the site boundary is included with this form. Specify name of USGS quad(s): Jersey City, NJ

(USGS quad maps are required, unless prior arrangements have been made to submit site boundaries in an alternate format. Responses will be delayed if site locations are not delineated in a suitable format.)

5. **Flood Hazard Control Act Use:** **Is this request submitted as part of a Flood Hazard Area Control Act rule (N.J.A.C. 7:13) application? Yes ___ No**

6. **Acknowledgement & Signature:** Any material supplied by the Office of Natural Lands Management will not be published without crediting the Natural Heritage Database as the source of the material. It is understood that there will be a charge of \$70.00 per hour for the services requested. An invoice will be sent with the request response and payment should be made by check or money order payable to "Office of Natural Lands Management."

Signed  **Date** June 8, 2012

Time Frame for Response:

Data requests are processed in the order in which they are received; the response time depends on the backlog at the time your request is logged in. Due to the number of attachments, we cannot fax results. If you would like to have your response package returned by Federal Express, please include an account number with your request.

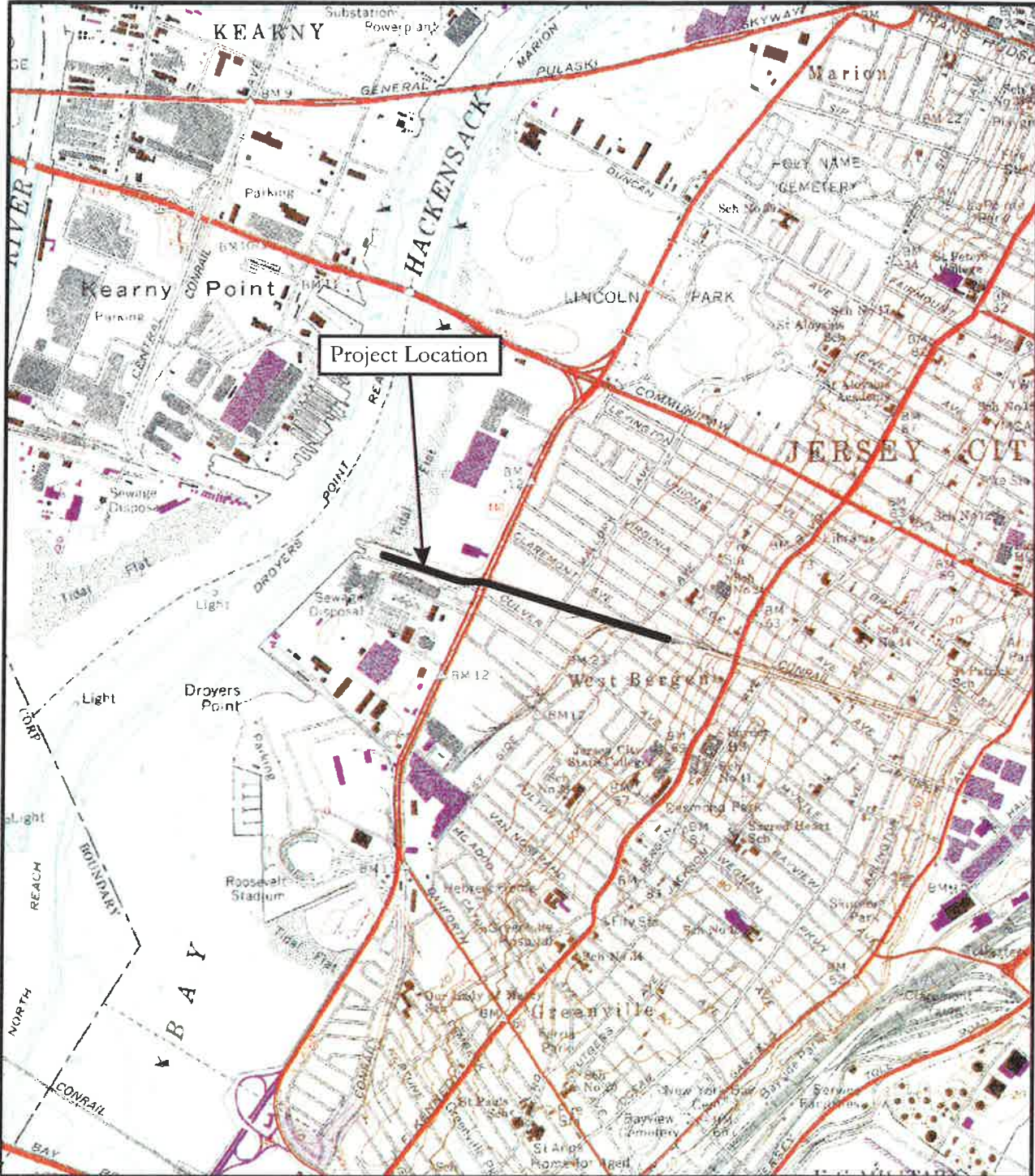
FOR OFFICE USE ONLY

DATE RECEIVED _____

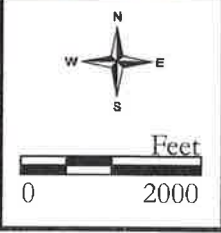
Item Code: REG ___ ST ___ RTC ___ NC ___ REGEO ___ STEO ___ RTCEO ___ NCEO ___

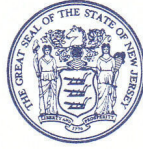
Hrs: _____

Project Code: _____ Inv. #: _____



Project Location
 Hudson-Bergen Light Rail NJ Route 440 Extension
 (from 1967 U.S.G.S. 7.5' Quadrangle: Jersey City, NJ
 [photorevised 1981]).





State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Parks and Forestry

Mail Code 501-04

ONLM -Natural Heritage Program

P.O. Box 420

Trenton, NJ 08625-0420

Tel. #609-984-1339

Fax. #609-984-1427

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

June 19, 2012

Jesse Moore
AKRF, Inc.
440 Park Avenue South
New York, NY 10016

Re: Hudson-Bergen Light Rail Route 440 Extension

Dear Ms. Moore:

Thank you for your data request regarding rare species information for the above referenced project site in Jersey City City, Hudson County.

Searches of the Natural Heritage Database and the Landscape Project (Version 3.1) are based on a representation of the boundaries of your project site in our Geographic Information System (GIS). We make every effort to accurately transfer your project bounds from the topographic map(s) submitted with the Request for Data into our Geographic Information System. We do not typically verify that your project bounds are accurate, or check them against other sources.

We have checked the Landscape Project habitat mapping and the Biotics Database for occurrences of any rare wildlife species or wildlife habitat on the referenced site. The Natural Heritage Database was searched for occurrences of rare plant species or ecological communities that may be on the project site. Please refer to Table 1 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented on site. A detailed report is provided for each category coded as 'Yes' in Table 1.

We have also checked the Landscape Project habitat mapping and Biotics Database for occurrences of rare wildlife species or wildlife habitat in the immediate vicinity (within ¼ mile) of the referenced site. Additionally, the Natural Heritage Database was checked for occurrences of rare plant species or ecological communities within ¼ mile of the site. Please refer to Table 2 (attached) to determine if any rare plant species, ecological communities, or rare wildlife species or wildlife habitat are documented within the immediate vicinity of the site. Detailed reports are provided for all categories coded as 'Yes' in Table 2. These reports may include species that have also been documented on the project site.

The Natural Heritage Program reviews its data periodically to identify priority sites for natural diversity in the State. Included as priority sites are some of the State's best habitats for rare and endangered species and ecological communities. Please refer to Tables 1 and 2 (attached) to determine if any priority sites are located on or in the vicinity of the site.

A list of rare plant species and ecological communities that have been documented from Hudson County can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/countylist.html>. If suitable habitat is present at the project site, the species in that list have potential to be present.

Status and rank codes used in the tables and lists are defined in EXPLANATION OF CODES USED IN NATURAL HERITAGE REPORTS, which can be downloaded from http://www.state.nj.us/dep/parksandforests/natural/heritage/nhpcodes_2010.pdf.

If you have questions concerning the wildlife records or wildlife species mentioned in this response, we recommend that you visit the interactive NJ-GeoWeb website at the following URL, <http://www.state.nj.us/dep/gis/geoweb splash.htm> or contact the Division of Fish and Wildlife, Endangered and Nongame Species Program at (609) 292-9400.

PLEASE SEE 'CAUTIONS AND RESTRICTIONS ON NHP DATA', which can be downloaded from <http://www.state.nj.us/dep/parksandforests/natural/heritage/newcaution2008.pdf>.

Thank you for consulting the Natural Heritage Program. The attached invoice details the payment due for processing this data request. Feel free to contact us again regarding any future data requests.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Robert J. Cartica', with a long horizontal flourish extending to the right.

Robert J. Cartica
Administrator

c: NHP File No. 12-4007461-1508

Table 1: On Site Data Request Search Results (7 Possible Reports)

Rare Plants/Ecological Communities Possibly On Site:	No
Rare Plants/Ecological Communities On Site/Immediate Vicinity:	No
Natural Heritage Priority Sites On Site:	No
Landscape 3.1 Species Based Patches On Site:	No
Landscape 3.1 Vernal Pool Habitat On Site:	No
Landscape 3.1 Stream/Mussel Habitat On Site:	No
Other Animals Tracked by ENSP On Site:	No

Table 2: Vicinity Data Request Search Results (6 possible reports)

Rare Plants/Ecological Communities within the Vicinity:	No
Natural Heritage Priority Sites within the Vicinity:	No
Landscape 3.1 Species Based Patches within the Vicinity:	Yes
Landscape 3.1 Vernal Pool Habitat within the Vicinity:	No
Landscape 3.1 Stream/Mussel Habitat within the Vicinity:	No
Other Animals Tracked by ENSP within the Vicinity:	No

**Rare Wildlife Species or Wildlife Habitat Within the
Immediate Vicinity of the Project Site Based on Search of
Landscape Project 3.1 Species Based Patches**

Class	Common Name	Scientific Name	Feature Type	Rank	Federal Protection	State Protection	Grank	Strank
<i>Aves</i>	Black-crowned Night-heron	Nycticorax nycticorax	Foraging	3	NA	State Threatened	G5	S2B,S3N
	Cattle Egret	Bubulcus ibis	Foraging	3	NA	State Threatened	G5	S2B,S3N
	Glossy Ibis	Plegadis falcinellus	Foraging	2	NA	Special Concern	G5	S3B,S4N
	Little Blue Heron	Egretta caerulea	Foraging	2	NA	Special Concern	G5	S3B,S3N
	Snowy Egret	Egretta thula	Foraging	2	NA	Special Concern	G5	S3B,S4N

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
ATLANTIC	Absecon City								P						
ATLANTIC	Atlantic City		P									E	P		
ATLANTIC	Brigantine City		E									E	E		
ATLANTIC	Buena Borough							P	P						
ATLANTIC	Buena Vista Township							P	P	H				P	
ATLANTIC	Corbin City							P	P						
ATLANTIC	Egg Harbor City							P	H	H				P	
ATLANTIC	Egg Harbor Township	H	E					E	E		H	E	P		
ATLANTIC	Estell Manor City							P	P		H			P	
ATLANTIC	Folsom Borough							P	P	H				P	
ATLANTIC	Galloway Township		E					P	E	H		E	E	E	E
ATLANTIC	Hamilton Township							P	E	H	H			P	
ATLANTIC	Hammonton Town	H						H	E	H				E	
ATLANTIC	Longport Borough		P									P	P		
ATLANTIC	Margate City		P									P	P		
ATLANTIC	Mullica Township							E	E	H				E	
ATLANTIC	Northfield City								P						
ATLANTIC	Pleasantville City							E							
ATLANTIC	Port Republic City							P	H					E	
ATLANTIC	Somers Point City		H												
ATLANTIC	Ventnor City		P									P	P		
ATLANTIC	Weymouth Township							P	P		H			P	
ATLANTIC	Weymouth Township							E	P					P	
BERGEN	Allendale Borough			P											
BERGEN	Alpine Borough	X		P											
BERGEN	Closter Borough			P		X									
BERGEN	Demarest Borough			P											
BERGEN	Emerson Borough			P											
BERGEN	Englewood City			P											
BERGEN	Franklin Lakes Borough			P		X									
BERGEN	Hackensack City	X													
BERGEN	Harrington Park Borough			P											
BERGEN	Haworth Borough			P	X										
BERGEN	Ho-Ho-Kus Borough			P											
BERGEN	Little Ferry Borough			P											
BERGEN	Mahwah Township			P											
BERGEN	Montvale Borough	X		P											
BERGEN	Moonachie Borough			P											
BERGEN	Northvale Borough	X													
BERGEN	Norwood Borough			P											
BERGEN	Oakland Borough			P											
BERGEN	Old Tappan Borough	X		P											
BERGEN	Park Ridge Borough			P											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
BERGEN	Ramsey Borough			P											
BERGEN	Ridgefield Borough			P											
BERGEN	Ridgewood Village			P											
BERGEN	River Vale Township	X		P											
BERGEN	Saddle River Borough			P											
BERGEN	Tenafly Borough	X		P											
BERGEN	Washington Township			P											
BURLINGTON	Bass River Township	H						P	E		H			E	
BURLINGTON	Bordentown City	X													
BURLINGTON	Bordentown Township	H													
BURLINGTON	Burlington City									X					
BURLINGTON	Burlington Township	E													
BURLINGTON	Chesterfield Township	E													
BURLINGTON	Delanco Township	H													
BURLINGTON	Delran Township	E													
BURLINGTON	Eastampton Township	P						P							
BURLINGTON	Edgewater Park Township	X													
BURLINGTON	Evesham Township	H						E	P						
BURLINGTON	Florence Township	P													
BURLINGTON	Hainesport Township	P						P							
BURLINGTON	Lumberton Township	P						P							
BURLINGTON	Mansfield Township	E													
BURLINGTON	Maple Shade Township							X							
BURLINGTON	Medford Lakes Borough								P						
BURLINGTON	Medford Township	E						E	P					P	
BURLINGTON	Moorestown Township	E						P							
BURLINGTON	Mount Holly Township							P							
BURLINGTON	Mount Laurel Township	H						P							
BURLINGTON	New Hanover Township	E						P	P	P					
BURLINGTON	North Hanover Township	E						P							
BURLINGTON	Pemberton Borough							P	P						
BURLINGTON	Pemberton Township	P						E	P	E				H	
BURLINGTON	Shamong Township	P						P	H	H				E	E
BURLINGTON	Southampton Township	E						E	P	H				H	
BURLINGTON	Springfield Township	E						P							
BURLINGTON	Tabernacle Township	P						E	P	H				E	
BURLINGTON	Washington Township	H						P	E	H	H			E	
BURLINGTON	Westampton Township	E													
BURLINGTON	Woodland Township	P						E	E	E				E	
BURLINGTON	Wrightstown Borough							P	P						
CAMDEN	Audubon Borough	X													
CAMDEN	Berlin Borough							E							
CAMDEN	Berlin Township							E							

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
CAMDEN	Camden City										X				
CAMDEN	Cherry Hill Township							P							
CAMDEN	Chesilhurst Borough								P						
CAMDEN	Clementon Borough							H							
CAMDEN	Gibbsboro Borough							E							
CAMDEN	Gloucester Township	H						E							
CAMDEN	Haddonfield Borough							H							
CAMDEN	Lindenwold Borough							E							
CAMDEN	Oaklyn Borough	X													
CAMDEN	Pine Hill Borough	H						E							
CAMDEN	Pine Valley Borough							E							
CAMDEN	Runnemede Borough							X							
CAMDEN	Voorhees Township							E							
CAMDEN	Waterford Township							E	H	H				P	
CAMDEN	Winslow Township							H	E	H				P	
CAPE MAY	Avalon Borough		E									E	E		
CAPE MAY	Cape May City		E							X		P	P		
CAPE MAY	Cape May Point Borough		H				X					P	P		
CAPE MAY	Dennis Township							E	P				E		
CAPE MAY	Lower Township		E					E		H		E	E		
CAPE MAY	Middle Township		E					E		H		P	E		
CAPE MAY	North Wildwood City		E									P	E		
CAPE MAY	Ocean City		E		X							E	P		
CAPE MAY	Sea Isle City		E									E	P		
CAPE MAY	Stone Harbor Borough		E									P	E		
CAPE MAY	Upper Township	H	E					E	P			E	P		
CAPE MAY	Wildwood City		P									P	P		
CAPE MAY	Wildwood Crest Borough		H									P	E		
CAPE MAY	Woodbine Borough							P	P						
CUMBERLAND	Bridgeton City							H							
CUMBERLAND	Commercial Township							P			H		E		
CUMBERLAND	Deerfield Township							P							
CUMBERLAND	Downe Township							E					E		
CUMBERLAND	Fairfield Township							E					E		
CUMBERLAND	Greenwich Township							P							
CUMBERLAND	Hopewell Township	P						H							
CUMBERLAND	Lawrence Township							E					E		
CUMBERLAND	Maurice River Township							E	P	H	E		E		
CUMBERLAND	Millville City							E			P				
CUMBERLAND	Stow Creek Township							H							
CUMBERLAND	Upper Deerfield Township	P						E							
CUMBERLAND	Vineland City							E							
ESSEX	Cedar Grove Township			P											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
ESSEX	Essex Fells Borough			P											
ESSEX	Fairfield Township			HI											
ESSEX	Livingston Township			MA	X										
ESSEX	Millburn Township			MA											
ESSEX	North Caldwell Borough			P											
ESSEX	Roseland Borough			P											
ESSEX	West Caldwell Township			P											
ESSEX	West Orange Township			P											
GLOUCESTER	Clayton Borough							E							
GLOUCESTER	Deptford Township							H							
GLOUCESTER	East Greenwich Township	E						H							
GLOUCESTER	Elk Township	P						E							
GLOUCESTER	Franklin Township							H	P					P	
GLOUCESTER	Glassboro Borough							E							
GLOUCESTER	Greenwich Township	P													
GLOUCESTER	Harrison Township	E						P							
GLOUCESTER	Logan Township	P								H					
GLOUCESTER	Mantua Township	H						H							
GLOUCESTER	Monroe Township							E	P	H				P	
GLOUCESTER	Newfield Borough							H	P						
GLOUCESTER	South Harrison Township	E						E							
GLOUCESTER	Washington Township	H						E							
GLOUCESTER	Wenonah Borough							H							
GLOUCESTER	West Deptford Township							H							
GLOUCESTER	Woodbury Heights Borough							H							
GLOUCESTER	Woolwich Township	E						H							
HUNTERDON	Alexandria Township	E		P											
HUNTERDON	Bethlehem Township	E		P											
HUNTERDON	Bloomsbury Borough			P											
HUNTERDON	Califon Borough			P		P									
HUNTERDON	Clinton Town	P		P											
HUNTERDON	Clinton Township	E		P											
HUNTERDON	Delaware Township			P											
HUNTERDON	East Amwell Township			P											
HUNTERDON	Franklin Township	E		P											
HUNTERDON	Frenchtown Borough			P											
HUNTERDON	Glen Gardner Borough	E		P											
HUNTERDON	Hampton Borough	P		P											
HUNTERDON	High Bridge Borough	P		P											
HUNTERDON	Holland Township	P		P											
HUNTERDON	Kingwood Township	P		P											
HUNTERDON	Lambertville City			P											
HUNTERDON	Lebanon Borough	P		P											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
HUNTERDON	Lebanon Township	E		P			P								
HUNTERDON	Milford Borough	P		P											
HUNTERDON	Raritan Township	P		P											
HUNTERDON	Readington Township	E		P											
HUNTERDON	Stockton Borough			P											
HUNTERDON	Tewksbury Township	E		MA			H								
HUNTERDON	Union Township	E		P											
HUNTERDON	West Amwell Township			P											
MERCER	East Windsor Township	E													
MERCER	Ewing Township			P											
MERCER	Hamilton Township	H													
MERCER	Hopewell Township			P											
MERCER	Lawrence Township			P											
MERCER	Princeton Township			P											
MERCER	Robbinsville Township	H													
MERCER	Trenton City				X										
MERCER	West Windsor Township	P		P				H							
MIDDLESEX	Cranbury Township	P		P											
MIDDLESEX	East Brunswick Township	H		P				E							
MIDDLESEX	Edison Township			P				X							
MIDDLESEX	Helmetta Borough	H		P				P							
MIDDLESEX	Middlesex Borough			P											
MIDDLESEX	Monroe Township			P				P							
MIDDLESEX	New Brunswick City			P				X							
MIDDLESEX	North Brunswick Township			P											
MIDDLESEX	Old Bridge Township			P				P							
MIDDLESEX	Perth Amboy City							X							
MIDDLESEX	Piscataway Township			P											
MIDDLESEX	Plainsboro Township	P		P											
MIDDLESEX	Sayreville Borough	X						X							
MIDDLESEX	South Brunswick Township			P											
MIDDLESEX	South Plainfield Borough			P											
MIDDLESEX	Spotswood Borough			P											
MIDDLESEX	Woodbridge Township			P											
MONMOUTH	Aberdeen Township		P										P		
MONMOUTH	Allenhurst Borough		P										P		
MONMOUTH	Asbury Park City		P										P		
MONMOUTH	Atlantic Highlands Borough		P										P		
MONMOUTH	Avon-by-the-Sea Borough		P										E		
MONMOUTH	Belmar Borough		P										E		
MONMOUTH	Bradley Beach Borough		P										E		
MONMOUTH	Brielle Borough							E							
MONMOUTH	Colts Neck Township							E	E						

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
MONMOUTH	Deal Borough		P										P		
MONMOUTH	Farmingdale Borough								P						
MONMOUTH	Freehold Borough							P							
MONMOUTH	Freehold Township	E					E	P							
MONMOUTH	Gateway National Recreation Area		E		E							E	P		
MONMOUTH	Highlands Borough		P									P			
MONMOUTH	Howell Township	E					E	E							
MONMOUTH	Keansburg Borough		P									P			
MONMOUTH	Keyport Borough		P									P			
MONMOUTH	Loch Arbour Village		P									P			
MONMOUTH	Long Branch City	X	E									E			
MONMOUTH	Manalapan Township	E						E							
MONMOUTH	Manasquan Borough		P									E			
MONMOUTH	Middletown Township		P									P			
MONMOUTH	Millstone Township	E						E							
MONMOUTH	Monmouth Beach Borough		E									E			
MONMOUTH	Neptune Township		P						H			P			
MONMOUTH	Roosevelt Borough	E						P							
MONMOUTH	Sea Bright Borough		E									E			
MONMOUTH	Sea Girt Borough		E									E			
MONMOUTH	Spring Lake Borough		E									E			
MONMOUTH	Tinton Falls Borough								P						
MONMOUTH	Union Beach Borough		P									P			
MONMOUTH	Upper Freehold Township	E						P							
MONMOUTH	Wall Township	E						H	E						
MORRIS	Boonton Town	P		HI											
MORRIS	Boonton Township	E		HI											
MORRIS	Butler Borough			HI											
MORRIS	Chatham Borough	P		MA											
MORRIS	Chatham Township	E		MA											
MORRIS	Chester Borough	E		MA											
MORRIS	Chester Township	E		HI		P									
MORRIS	Denville Township	H		HI											
MORRIS	Dover Town	H		HI											
MORRIS	East Hanover Township			MA	X										
MORRIS	Florham Park Borough	H		MA											
MORRIS	Hanover Township	H		HI											
MORRIS	Harding Township	E		MA											
MORRIS	Jefferson Township	E		HI		P									
MORRIS	Kinnelon Borough	P		HI		P									
MORRIS	Lincoln Park Borough			HI											
MORRIS	Long Hill Township	E		MA											
MORRIS	Madison Borough			MA											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
MORRIS	Mendham Borough			MA											
MORRIS	Mendham Township	H		HI											
MORRIS	Mine Hill Township	H		HI											
MORRIS	Montville Township	P		HI											
MORRIS	Morris Plains Borough			HI											
MORRIS	Morris Township	E		HI											
MORRIS	Morristown Town			HI											
MORRIS	Mount Arlington Borough			HI											
MORRIS	Mount Olive Township	E		HI				E							
MORRIS	Mountain Lakes Borough	P		HI											
MORRIS	Netcong Borough			HI											
MORRIS	Parsippany-Troy Hills Township	H		HI											
MORRIS	Pequannock Township			HI											
MORRIS	Randolph Township	H		HI				H							
MORRIS	Riverdale Borough			HI											
MORRIS	Rockaway Borough			HI											
MORRIS	Rockaway Township	E		HI											
MORRIS	Roxbury Township	E		HI				H							
MORRIS	Victory Gardens Borough			HI											
MORRIS	Washington Township	E		MA			P								
MORRIS	Wharton Borough	H		HI											
OCEAN	Barneget Light Borough		E									P			
OCEAN	Barneget Township					X		E	E					H	
OCEAN	Bay Head Borough		P									E			
OCEAN	Beach Haven Borough		P									P			
OCEAN	Beachwood Borough							P	P					P	
OCEAN	Berkeley Township		E			X		P	E			E		H	
OCEAN	Brick Township	E	P					P	P			E			
OCEAN	Eagleswood Township							P	E					P	
OCEAN	Harvey Cedars Borough		H									P			
OCEAN	Island Heights Borough								P						
OCEAN	Jackson Township	P						E	H					P	
OCEAN	Lacey Township							E	E					E	
OCEAN	Lakehurst Borough	E						P	P					P	
OCEAN	Lakewood Township							E	P						
OCEAN	Lavallette Borough		P									P			
OCEAN	Little Egg Harbor Township		H			X		E	E				P	P	
OCEAN	Long Beach Township		P									P			
OCEAN	Long Beach Township		H									P			
OCEAN	Long Beach Township		P									E			
OCEAN	Long Beach Township		E			X						E	E		
OCEAN	Manchester Township	E						E	E	P				E	
OCEAN	Mantoloking Borough		H									E			

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
OCEAN	Ocean Gate Borough								P						
OCEAN	Ocean Township		H					P	P					E	
OCEAN	Pine Beach Borough								P						
OCEAN	Plumsted Township	E						E	P	P					
OCEAN	Point Pleasant Beach Borough		P		X					X		P			
OCEAN	Seaside Heights Borough		P									E			
OCEAN	Seaside Park Borough		P									P			
OCEAN	Ship Bottom Borough		P									P			
OCEAN	South Toms River Borough							P	P					P	
OCEAN	Stafford Township		H					E	E					E	
OCEAN	Surf City Borough		P									P			
OCEAN	Toms River Township		H					E	P			P		H	
OCEAN	Tuckerton Borough							P	P						
PASSAIC	Bloomington Borough			HI		E									
PASSAIC	Clifton City			P											
PASSAIC	Haledon Borough			P											
PASSAIC	Little Falls Township			P											
PASSAIC	North Haledon Borough			P											
PASSAIC	Pompton Lakes Borough			P		P									
PASSAIC	Ringwood Borough			P		P									
PASSAIC	Totowa Borough			P											
PASSAIC	Wanaque Borough			P		P									
PASSAIC	Wayne Township	X		P											
PASSAIC	West Milford Township	H		HI		P									
PASSAIC	West Paterson Borough			P											
SALEM	Alloway Township	P						E							
SALEM	Elmer Borough							P							
SALEM	Elsinboro Township										H				
SALEM	Lower Alloways Creek Township	P						E			H				
SALEM	Mannington Township	E						P			H				
SALEM	Oldmans Township	P									H				
SALEM	Pennsville Township										H				
SALEM	Pilesgrove Township	E						P							
SALEM	Pittsgrove Township	P						E							
SALEM	Quinton Township	H						E			H				
SALEM	Salem City										H				
SALEM	Upper Pittsgrove Township	E						E							
SALEM	WoodsTown Borough							P							
SOMERSET	Bedminster Township	P		MA											
SOMERSET	Bernards Township	E		MA											
SOMERSET	Bernardsville Borough	P		MA											
SOMERSET	Branchburg Township	P		P											
SOMERSET	Bridgewater Township	P		P											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
SOMERSET	Far Hills Borough	E		MA											
SOMERSET	Franklin Township	H		P											
SOMERSET	Green Brook Township			P											
SOMERSET	Hillsborough Township			P											
SOMERSET	Millstone Borough			P											
SOMERSET	Montgomery Township			P											
SOMERSET	North Plainfield Borough			P											
SOMERSET	Peapack-Gladstone Borough	E		MA											
SOMERSET	Raritan Borough			P											
SOMERSET	Somerville Borough			P											
SOMERSET	Warren Township	E		MA											
SOMERSET	Watchung Borough	X		MA											
SUSSEX	Andover Borough	H		P	P										
SUSSEX	Andover Township	E		HI	P		H								
SUSSEX	Branchville Borough			P	P										
SUSSEX	Byram Township			HI	P										
SUSSEX	Byram Township	E		HI	P		P								
SUSSEX	Frankford Township	E		P	E		P								
SUSSEX	Franklin Borough	E		MA	P		H								
SUSSEX	Fredon Township	E		P	P										
SUSSEX	Green Township	E		P	P										
SUSSEX	Hamburg Borough	E		MA	P										
SUSSEX	Hampton Township	E		MA	E		P								
SUSSEX	Hardyston Township	E		HI	P		H								
SUSSEX	Hopatcong Borough	P		HI	P		P								
SUSSEX	Lafayette Township	E		MA	E		H								
SUSSEX	Montague Township	E		MA	E		E								
SUSSEX	Newton Town	P		MA	P										
SUSSEX	Ogdensburg Borough	E		HI	P		H								
SUSSEX	Sandyston Township	E		P	E		E								
SUSSEX	Sparta Township	E		HI	P		H								
SUSSEX	Stanhope Borough	P		HI	P										
SUSSEX	Stillwater Township	E		P	P		P								
SUSSEX	Sussex Borough	P		MA	P										
SUSSEX	Vernon Township	E		MA	P		P								
SUSSEX	Walpack Township	E		P	E		P								
SUSSEX	Wantage Township	E		MA	P		P								
UNION	Berkeley Heights Township	E		MA											
UNION	Cranford Township			P											
UNION	Mountainside Borough	X		MA											
UNION	New Providence Borough			MA											
UNION	Scotch Plains Township	E		MA											
UNION	Springfield Township			P											

Federally Listed and Candidate Species Occurrences in New Jersey by County and Municipality

County	Municipality	Bog Turtle (T)	Piping Plover (T)	Indiana Bat (E)	Dwarf Wedgemussel (E)	NE Beach Tiger Beetle (T)	Small Whorled Pogonia (T)	Swamp Pink (T)	Knieskern's Beaked Rush (T)	American Chaffseed (E)	Sensitive Joint-vetch (T)	Seabeach Amaranth (T)	Red Knot (C)	Bog Asphodel (C)	Hirsts' Panic Grass (C)
Federal Listing Status: (E)=Endangered, (T)=Threatened, (C)=Candidate															
E = Extant (present), P = Potential (may be present), H = Historic (may still be present), X = Extirpated (no longer present)															
Extant occurrences of Indiana bat: MA = Maternity (April 1 to Sept. 30), HI = Hibernation															
UNION	Summit City	X		MA											
UNION	Westfield Town			P											
WARREN	Allamuchy Township	E		P	E										
WARREN	Alpha Borough			P	P										
WARREN	Belvidere Town	P		P	P										
WARREN	Blairstown Township	H		P	P										
WARREN	Franklin Township	E		P	P										
WARREN	Frelinghuysen Township	E		P	P										
WARREN	Greenwich Township	P		P	P										
WARREN	Hackettstown Town	P		P	P										
WARREN	Hardwick Township	E		P	H		P								
WARREN	Harmony Township	E		P	P										
WARREN	Hope Township	E		P	P										
WARREN	Independence Township	E		P	E										
WARREN	Knowlton Township	P		P	E										
WARREN	Liberty Township	E		P	E										
WARREN	Lopatcong Township			P	P										
WARREN	Mansfield Township	P		P	P										
WARREN	Oxford Township	E		P	P										
WARREN	Phillipsburg Town			P	P										
WARREN	Pohatcong Township			P	P										
WARREN	Washington Borough	P		P	P										
WARREN	Washington Township	E		P	P										
WARREN	White Township	E		P	E										