

Wildlife Species Inventory for Crown City Wind Energy Project

Based on existing data, on-site surveys, and/or the availability of suitable habitat, the following species could occur in the project area at some time during the year:

	Common Name	Scientific Name
Bird Species		
	<u>Loons</u>	<u>Gaviidae</u>
6	common loon	<i>Gavia immer</i>
6	red-throated loon	<i>Gavia stellata</i>
	<u>Grebes</u>	<u>Pedicipedidae</u>
6	pied-billed grebe	<i>Podilymbus podiceps</i>
6	horned grebe	<i>Podiceps auritus</i>
6	red-necked grebe	<i>Podiceps grisegena</i>
	<u>Cormorants</u>	<u>Phalacrocoracidae</u>
	double crested cormorant	<i>Phalacrocorax auritus</i>
	<u>Herons, Bitterns</u>	<u>Ardeidae</u>
1, 2, 4, 5, 6	great blue heron	<i>Ardea herodias</i>
1, 2, 4	green heron (green-backed)	<i>Butorides striatus</i>
	black-crowned night heron	<i>Nycticorax nycticorax</i>
	great egret	<i>Ardea alba</i>
4	American bittern	<i>Botaurus lentiginosus</i>
	least bittern	<i>Ixobrychus exilis</i>
	<u>Waterfowl</u>	<u>Anatidae</u>
1, 2, 4, 5, 6	Canada goose	<i>Branta canadensis</i>
2, 6	snow goose	<i>Anser caerulescens</i>
1, 2, 4, 5, 6	mallard	<i>Anas platyrhynchos</i>
2, 6	American black duck	<i>Anas rubripes</i>
6	blue-winged teal	<i>Anas discors</i>
2, 4, 5, 6	wood duck	<i>Aix sponsa</i>
2, 6	hooded merganser	<i>Lophodytes cacullatus</i>
2, 4, 6	common merganser	<i>Mergus merganser</i>
6	red-breasted merganser	<i>Mergus serrator</i>
2	green winged teal	<i>Anas crecca</i>
6	gadwall	<i>Anas strepera</i>
2, 6	northern pintail	<i>Anas acuta</i>
6	canvasback	<i>Aythya valisineria</i>
6	redhead	<i>Aythya americana</i>
2, 6	ring-necked duck	<i>Aythya collaris</i>
6	greater scaup	<i>Aythya marila</i>
6	lesser scaup	<i>Aythya affinis</i>
6	bufflehead	<i>Bucephala albeola</i>
6	common goldeneye	<i>Bucephala clangula</i>
6	ruddy duck	<i>Oxyura jamaicensis</i>
	mute swan	<i>Cygnus olor</i>

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2	tundra swan	<i>Cygnus columbianus</i>
	<u>American Vultures</u>	<u>Cathartidae</u>
1, 2, 4	turkey vulture	<i>Cathartes aura</i>
2	black vulture	<i>Coragyps atratus</i>
	<u>Hawks</u>	<u>Accipitridae</u>
2, 6	Bald eagle	<i>Haliaeetus leucocephalus</i>
2, 6	golden eagle	<i>Aquila chrysaetos</i>
1, 2, 4	osprey	<i>Pandion haliaetus</i>
2, 4, 6	sharp-shinned hawk	<i>Accipiter striatus</i>
1, 2, 4, 5, 6	Cooper's hawk	<i>Accipiter cooperii</i>
1, 2, 4, 5, 6	red-tailed hawk	<i>Buteo jamaicensis</i>
2, 6	rough-legged hawk	<i>Buteo lagopus</i>
2, 4, 6	northern harrier	<i>Circus cyaneus</i>
6	northern goshawk	<i>Accipiter gentilis</i>
2, 4	red-shouldered hawk	<i>Buteo lineatus</i>
2, 4	broad-winged hawk	<i>Buteo platypterus</i>
	<u>Falcons</u>	<u>Falconidae</u>
1, 2, 4, 6	American kestrel	<i>Falco sparverius</i>
2, 6	merlin	<i>Falco columbarius</i>
	peregrine falcon	<i>Falco peregrinus</i>
	<u>Turkeys</u>	<u>Meleagrididae</u>
1, 2, 4, 5, 6	wild turkey	<i>Meleagris gallopavo</i>
	<u>Grouse</u>	<u>Tetraonidae</u>
1, 2, 4, 5, 6	ruffed grouse	<i>Bonasa umbellus</i>
	<u>Quail</u>	<u>Phasianidae</u>
2, 4, 6	ring-necked pheasant	<i>Phasianus colchicus</i>
	northern bobwhite	<i>Colinus virginianus</i>
	<u>Rails</u>	<u>Rallidae</u>
	Virginia rail	<i>Rallus limicola</i>
	sora rail	<i>Porzana carolina</i>
	common moorhen	<i>Gallinula chloropus</i>
6	American coot	<i>Fulica americana</i>
	<u>Plovers</u>	<u>Charadriidae</u>
1, 2, 4, 5	killdeer	<i>Charadrius vociferus</i>
	<u>Sandpipers</u>	<u>Scolopacidae</u>
2, 4	spotted sandpiper	<i>Actitis macularia</i>
4	upland sandpiper	<i>Bartramia longicauda</i>
1, 2	American woodcock	<i>Philohela minor</i>
4	common snipe	<i>Gallinago gallinago</i>

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<u>Gulls, Terns</u>		<u>Laridae</u>
2, 4, 6	ring-billed gull	<i>Larus delawarensis</i>
4, 6	herring gull	<i>Larus argentatus</i>
2, 6	greater black-backed gull	<i>Larus marinus</i>
<u>Pigeons, Doves</u>		<u>Columbidae</u>
2, 4, 5, 6	rock dove	<i>Columba livia</i>
1, 2, 4, 5, 6	mourning dove	<i>Zenaida macroura</i>
<u>Cuckoos</u>		<u>Cuculidae</u>
2, 4	yellow-billed cuckoo	<i>Coccyzus americanus</i>
2, 4	black-billed cuckoo	<i>Coccyzus erythrophthalmus</i>
<u>Typical Owls</u>		<u>Strigidae</u>
4, 6	eastern screech owl	<i>Otus asio</i>
2, 4, 6	great horned owl	<i>Bubo virginianus</i>
2, 4, 6	barred owl	<i>Strix varia</i>
6	long-eared owl	<i>Asio otus</i>
6	short-eared owl	<i>Asio flammeus</i>
6	northern saw-whet	<i>Aegolius acadicus</i>
<u>Goat Suckers</u>		<u>Caprimulgidae</u>
	common nighthawk	<i>Chordeiles minor</i>
	whip-poor-will	<i>Caprimulgus vociferus</i>
<u>Swifts</u>		<u>Apodidae</u>
2, 4, 5	chimney swift	<i>Chaetura pelagica</i>
<u>Hummingbirds</u>		<u>Trochilidae</u>
2, 4, 5	ruby-throated hummingbird	<i>Archilochus colubris</i>
<u>Kingfishers</u>		<u>Alcedinidae</u>
1, 2, 4, 5, 6	belted kingfisher	<i>Ceryle alcyon</i>
<u>Woodpeckers</u>		<u>Picidae</u>
1, 2, 4, 5, 6	northern flicker	<i>Colaptes auratus</i>
1, 2, 4	pileated woodpecker	<i>Dryocopus pileatus</i>
2, 4, 6	red-bellied woodpecker	<i>Melanerpes carolinus</i>
	red-headed woodpecker	<i>Melanerpes erythrocephalus</i>
1, 2, 4, 5, 6	hairy woodpecker	<i>Picoides villosus</i>
2, 4, 5, 6	downy woodpecker	<i>Picoides pubescens</i>
2, 4, 5, 6	yellow-bellied sapsucker	<i>Sphyrapicus varius</i>
<u>Flycatchers</u>		<u>Tyrannidae</u>
2, 4, 5	eastern kingbird	<i>Tyrannus tyrannus</i>
2, 4	great crested flycatcher	<i>Myiarchus crinitus</i>
4, 5	eastern phoebe	<i>Sayornis phoebe</i>

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2, 4	willow flycatcher	<i>Epidonax trailii</i>
2, 4, 5	least flycatcher	<i>Epidonax minimus</i>
	Acadian flycatcher	<i>Epidonax viresceus</i>
2, 4	alder flycatcher	<i>Epidonax alnorum</i>
2, 4	eastern wood-pewee	<i>Contopus virens</i>
	olive-sided flycatcher	<i>Nuttallornis borealis</i>
	yellow-bellied flycatcher	<i>Empidonax flaventris</i>
	<u>Larks</u>	<u>Alaudidae</u>
2, 4, 6	horned lark	<i>Eremophila alpestris</i>
	<u>Swallows</u>	<u>Hirundinidae</u>
	purple martin	<i>Progne subis</i>
2, 4, 5	bank swallow	<i>Riparia riparia</i>
1, 2, 4, 5	tree swallow	<i>Tachycineta bicolor</i>
2, 4, 5	barn swallow	<i>Hirundo rustica</i>
4, 5	northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>
	cliff swallow	<i>Hirundo pyrrhonotta</i>
	<u>Jays, Crows</u>	<u>Corvidae</u>
1, 2, 4, 6	blue jay	<i>Cyanocitta cristata</i>
1, 2, 4, 5, 6	American crow	<i>Corvus brachyrhynchos</i>
1, 2, 6	common raven	<i>Corvus corax</i>
	<u>Titmice</u>	<u>Paridae</u>
1, 2, 4, 5, 6	black-capped chickadee	<i>Parus atricapillus</i>
1, 2, 4, 5, 6	tufted titmouse	<i>Parus bicolor</i>
	<u>Nuthatches</u>	<u>Sittidae</u>
1, 2, 4, 5, 6	white-breasted nuthatch	<i>Sitta carolinensis</i>
2, 4, 6	red-breasted nuthatch	<i>Sitta canadensis</i>
	<u>Creepers</u>	<u>Certhiidae</u>
2, 6	brown creeper	<i>Certhia americana</i>
	<u>Wrens</u>	<u>Troglodytidae</u>
6	Carolina wren	<i>Thryothorus ludovicianus</i>
	marsh wren	<i>Cistothorus palustris</i>
1, 2, 4, 5	house wren	<i>Troglodytes aedon</i>
2, 4	winter wren	<i>Troglodytes troglodytes</i>
	<u>Mimic Thrushes</u>	<u>Mimidae</u>
2, 4, 6	northern mockingbird	<i>Mimus polyglottos</i>
1, 2, 4, 5	gray catbird	<i>Dumetella carolinensis</i>
2, 4	brown thrasher	<i>Toxostoma rufum</i>
	<u>Thrushes</u>	<u>Turdidae</u>
1, 2, 4, 5, 6	American robin	<i>Turdus migratorius</i>

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1, 2, 4, 5	wood thrush	<i>Hylocichla mustelina</i>
2, 4, 5	veery	<i>Catharus fuscescens</i>
2, 4	hermit thrush	<i>Catharus guttatus</i>
2, 4, 5, 6	eastern bluebird	<i>Sialia sialis</i>
	gray-cheeked thrush	<i>Catharus minimus</i>
	Swainson's thrush	<i>Catharus ustulatus</i>
	<u>Kinglets</u>	<u>Sylviidae</u>
5	blue-gray gnatcatcher	<i>Polioptila caerulea</i>
4, 6	golden-crowned kinglet	<i>Regulus satrapa</i>
2	ruby-crowned kinglet	<i>Regulus calendula</i>
	<u>Pipits</u>	<u>Motacillidae</u>
	American pipit	<i>Anthus rubescens</i>
	<u>Waxwings</u>	<u>Bombycillidae</u>
1, 2, 4, 6	cedar waxwing	<i>Bombycilla cedrorum</i>
6	Bohemian waxwing	<i>Bombycilla garrulus</i>
	<u>Shrikes</u>	<u>Laniidae</u>
	northern shrike	<i>Lanius excubitor</i>
	<u>Starlings</u>	<u>Sturnidae</u>
2, 4, 5, 6	European starling	<i>Sturnus vulgaris</i>
	<u>Vireos</u>	<u>Vireonidae</u>
2, 4	solitary vireo	<i>Vireo solitarius</i>
2, 4, 5	red-eyed vireo	<i>Vireo olivaceus</i>
4	yellow-throated vireo	<i>Vireo flavifrons</i>
2, 4	warbling vireo	<i>Vireo gilvus</i>
	Philadelphica vireo	<i>Vireo philadelphicus</i>
	white-eyed vireo	<i>Vireo griseus</i>
	<u>Wood Warblers</u>	<u>Parulidae</u>
2, 4	black and white warbler	<i>Mniotilta varia</i>
2, 4, 5	blue-winged warbler	<i>Vermivora pinus</i>
	golden-winged warbler	<i>Vermivora chrysoptera</i>
	Brewster's warbler	<i>Vermivora pinus</i> x <i>V. chrysoptera</i>
	Lawrence's warbler	<i>Vermivora chrysoptera</i> x <i>V. pinus</i>
2, 4	Nashville warbler	<i>Vermivora ruficapilla</i>
1, 2, 4, 5	yellow warbler	<i>Dendroica petechia</i>
2, 4	magnolia warbler	<i>Dendroica magnolia</i>
2, 4	black-throated blue warbler	<i>Dendroica caerulescens</i>
2, 4, 5	chestnut-sided warbler	<i>Dendroica pensylvanica</i>
2, 4	yellow-rumped warbler	<i>Dendroica coronata</i>
2, 4	black-throated green warbler	<i>Dendroica virens</i>
2, 4	blackburnian warbler	<i>Dendroica fusca</i>
	pine warbler	<i>Dendroica pinus</i>

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2, 4, 5	ovenbird	<i>Seiurus aurocapillus</i>
2	northern waterthrush	<i>Seiurus noveboracensis</i>
4	Louisiana waterthrush	<i>Seiurus motacilla</i>
2, 4, 5	mourning warbler	<i>Oporornis philadelphia</i>
2, 4, 5	common yellowthroat	<i>Geothlypis trichas</i>
2, 4, 5	Canada warbler	<i>Wilsonia canadensis</i>
	yellow-breasted chat	<i>Icteria virens</i>
2, 4, 5	American redstart	<i>Setophaga ruticila</i>
	prairie warbler	<i>Dendroica discolor</i>
	Tennessee warbler	<i>Vermivora peregrina</i>
	orange-crowned warbler	<i>Vermivora celata</i>
2	bay-breasted warbler	<i>Dendroica castanea</i>
	northern parula warbler	<i>Parula americana</i>
	Cape May warbler	<i>Dendroica tigrina</i>
	yellow-throated warbler	<i>Dendroica dominica</i>
	palm warbler	<i>Dendroica palmarum</i>
2	blackpoll warbler	<i>Dendroica striata</i>
2, 4	hooded warbler	<i>Wilsonia citrina</i>
	Kentucky warbler	<i>Oporornis formosus</i>
2	Wilson's warbler	<i>Wilsonia pusilla</i>
4	cerulean warbler	<i>Dendroica cerulea</i>
	worm-eating warbler	<i>Helmitheros vermivorus</i>
	Connecticut warbler	<i>Oporornis agilis</i>
	<u>Weaver Finches</u>	<u>Ploceidae</u>
1, 2, 4, 5, 6	house sparrow	<i>Passer domesticus</i>
	<u>Blackbirds</u>	<u>Icteridae</u>
1, 2, 4, 5	bobolink	<i>Dolichonyx oryzivorus</i>
2, 4, 6	eastern meadowlark	<i>Sturnella magna</i>
1, 2, 4, 5, 6	red-winged blackbird	<i>Agelaius phoeniceus</i>
6	rusty blackbird	<i>Euphagus carolinus</i>
	orchard oriole	<i>Icterus spurius</i>
1, 2, 4, 5	Baltimore oriole	<i>Icterus galbula</i>
1, 2, 4, 5, 6	common grackle	<i>Quiscalus quiscula</i>
2, 4, 6	brown-headed cowbird	<i>Molothrus ater</i>
	<u>Tanagers</u>	<u>Thraupidae</u>
2, 4	scarlet tanager	<i>Piranga olivacea</i>
	<u>Finches and Sparrows</u>	<u>Fringillidae and Emberizidae</u>
1, 2, 4, 5, 6	northern cardinal	<i>Cardinalis cardinalis</i>
2, 4, 5	rose-breasted grosbeak	<i>Pheucticus ludovicianus</i>
6	evening grosbeak	<i>Coccothraustes vespertinus</i>
6	pine grosbeak	<i>Pinicola enucleator</i>
2, 4, 5	indigo bunting	<i>Passerina cyanea</i>
2, 4, 5, 6	house finch	<i>Carpodacus mexicanus</i>
2, 4, 5, 6	purple finch	<i>Carpodacus purpureus</i>

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1, 2, 4, 5, 6	American goldfinch	<i>Carduelis tristis</i>
4, 5, 6	pine siskin	<i>Carduelis pinus</i>
2, 4, 6	rufous-sided towhee	<i>Pipilo erythrophthalmus</i>
2, 4, 5	savannah sparrow	<i>Passerculus sandwichensis</i>
2, 4	grasshopper sparrow	<i>Ammodramus honslowii</i>
4	Henslow's sparrow	<i>Ammodramus savannarum</i>
2, 4	vesper sparrow	<i>Pooecetes gramineus</i>
2, 6	American tree sparrow	<i>Spizella arborea</i>
2, 4, 5, 6	dark-eyed junco	<i>Junco hyemalis</i>
6	snow bunting	<i>Plectrophenax nivalis</i>
2, 6	Lapland longspur	<i>Calcarius lapponicus</i>
1, 2, 4, 5, 6	chipping sparrow	<i>Spizella passerina</i>
2, 4	field sparrow	<i>Spizella pusilla</i>
4, 6	swamp sparrow	<i>Melospiza georgiana</i>
2, 4, 5, 6	song sparrow	<i>Melospiza melodia</i>
2, 4, 6	white-throated sparrow	<i>Zonotrichia albicollis</i>
	Lincoln's sparrow	<i>Melospiza lincolnii</i>
2, 6	white-crowned sparrow	<i>Zonotrichia leucophrys</i>
6	red crossbill	<i>Loxia curvirostra</i>
6	white-winged crossbill	<i>Loxia leucoptera</i>
6	common redpoll	<i>Carduelis flammea</i>
	hoary redpoll	<i>Carduelis hornemanni</i>

Mammal Species

1	<u>Opossums</u>	<u><i>Didelphiidae</i></u>
	opossum	<i>Didelphis virginiana</i>
	<u>Shrews</u>	<u><i>Soricidae</i></u>
	smoky shrew	<i>Sorex fumeus</i>
	masked shrew	<i>Sorex cinereus</i>
	shorttail shrew	<i>Blarina brevicauda</i>
	least shrew	<i>Cryptotis parva</i>
1	<u>Moles</u>	<u><i>Talpidae</i></u>
	eastern mole	<i>Scalopus aquaticus</i>
	starnose mole	<i>Condylura cristata</i>
	hairytail mole	<i>Parascalops breweri</i>

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	<u>Plainnose Bats</u>	<u>Vespertilionidae</u>
2	eastern pipistrelle	<i>Pipistrellus subflavus</i>
2	big brown bat	<i>Eptesicus fuscus</i>
2	hoary bat	<i>Lasiurus cinereus</i>
2	eastern red bat	<i>Lasiurus borealis</i>
2	little brown myotis	<i>Myotis lucifugus</i>
	Eastern small-footed myotis	<i>Myotis leibii</i>
	Keen myotis	<i>Myotis keenii</i>
2	silver-haired bat	<i>Lasionycteris noctivagans</i>
2	northern long-eared bat	<i>Myotis septentrionalis</i>
	<u>Raccoons</u>	<u>Procyonidae</u>
1	raccoon	<i>Procyon lotor</i>
	<u>Weasels</u>	<u>Mustelidae</u>
	shorttail weasel	<i>Mustela erminea</i>
	longtail weasel	<i>Mustela frenata</i>
	mink	<i>Mustela vison</i>
	striped skunk	<i>Mephitis mephitis</i>
	<u>Dogs, Wolves, Foxes</u>	<u>Canidae</u>
1	coyote	<i>Canis latrans</i>
1	red fox	<i>Vulpes vulpes</i>
	gray fox	<i>Urocyon cinereoargenteus</i>
	<u>Cats</u>	<u>Felidae</u>
	bobcat	<i>Felis rufus</i>
	<u>Squirrels</u>	<u>Sciuridae</u>
1	woodchuck	<i>Marmota monax</i>
1	eastern chipmunk	<i>Tamias striatus</i>
1	eastern gray squirrel	<i>Sciurus carolinensis</i>
1	red squirrel	<i>Tamiasciurus hudsonicus</i>
	southern flying squirrel	<i>Glaucomys volans</i>
	<u>Beaver</u>	<u>Castoridae</u>
1	beaver	<i>Castor canadensis</i>
	<u>Mice, Rats, Lemmings, Voles</u>	<u>Cricetidae</u>
	deer mouse	<i>Peromyscus maniculatus</i>
	white-footed mouse	<i>Peromyscus leucopus</i>
	meadow vole	<i>Microtus pennsylvanicus</i>
	muskrat	<i>Ondatra zibethicus</i>
	<u>Old World Rats & Mice</u>	<u>Muridae</u>
	Norway rat	<i>Rattus norvegicus</i>
	house mouse	<i>Mus musculus</i>

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	<u>Jumping Mice</u> meadow jumping mouse woodland jumping mouse	<u>Zapeoidae</u> <i>Zapus hudsonicus</i> <i>Napaeozapus insignis</i>
1	<u>Porcupine</u> porcupine	<u>Erethizontidae</u> <i>Erethizon dorsatum</i>
1	<u>Hares, Rabbits</u> eastern cottontail snowshoe hare	<u>Leporidae</u> <i>Sylvilagus floridanus</i> <i>Lepus americanus</i>
1	<u>Deer</u> whitetail deer	<u>Cervidae</u> <i>Odocoileus virginianus</i>
	<u>Bears</u> black bear	<u>Ursidae</u> <i>Ursus americanus</i>

Reptile and Amphibian Species

1, 3	<u>Box and Water Turtles</u> eastern painted turtle	<u>Emydidae</u> <i>Chrysemys picta</i>
3	wood turtle	<i>Glyptemys insculpta</i>
3	spotted turtle	<i>Clemmys guttata</i>
	red-eared slider	<i>Trachemys scripta elegans</i>
3	<u>Snapping Turtles</u> common snapping turtle	<u>Chelydridae</u> <i>Chelydra serpentina</i>
	<u>Musk and Mud Turtles</u> stinkpot	<u>Kinosternidae</u> <i>Sternotherus odoratus</i>
3	<u>Colubrids</u> northern water snake	<u>Colubridae</u> <i>Nerodia sipedon</i>
3	northern brown snake	<i>Storeria dekayi dekayi</i>
1, 3	eastern garter snake	<i>Thamnophis sirtalis sirtalis</i>
3	northern red-bellied snake	<i>Storeria o. occipitomaculata</i>
3	eastern milk snake	<i>Lampropeltis triangulum triangulum</i>
3	eastern ribbon snake	<i>Thamnophis sauritus</i>
3	smooth green snake	<i>Liochlorophis vernalis</i>
3	eastern rat snake	<i>Elaphe alleghaniensis</i>
3	northern ringneck snake	<i>Diadophis punctatus edwardsi</i>
	northern black racer	<i>Coluber constrictor constrictor</i>
3	<u>Mole Salamanders</u> blue-spotted salamander	<u>Ambystomatidae</u> <i>Ambystoma laterale</i>
3	Jefferson's salamander	<i>Ambystoma jeffersonianum</i>
3	spotted salamander	<i>Ambystoma maculatum</i>

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	<u>Newts</u>	<u>Salamandridae</u>
1, 3	eastern newt	<i>Notophthalmus viridescens</i>
	<u>Lungless Salamanders</u>	<u>Plethodontidae</u>
1, 3	eastern red-backed salamander	<i>Plethodon cinereus cinereus</i>
1, 3	northern two-lined salamander	<i>Eurycea bislineata bislineata</i>
3	slimy salamander	<i>Plethodon glutinosus</i>
3	northern dusky salamander	<i>Desmognathus fuscus</i>
3	Allegheny dusky salamander	<i>Desmognathus ochrophaeus</i>
3	four-toed salamander	<i>Hemidactylium scutatum</i>
3	northern spring salamander	<i>Gyrinophilus p. porphyriticus</i>
	<u>Toads</u>	<u>Bufo</u>
1, 3	American toad	<i>Bufo americanus</i>
	<u>Tree Frogs</u>	<u>Hylidae</u>
3	spring peeper	<i>Pseudacris c. crucifer</i>
3	gray treefrog	<i>Hyla versicolor</i>
	<u>True Frogs</u>	<u>Ranidae</u>
1, 3	wood frog	<i>Rana sylvatica</i>
3	pickerel frog	<i>Rana palustris</i>
1, 3	northern leopard frog	<i>Rana pipiens</i>
1, 3	green frog	<i>Rana clamitans melanota</i>
1, 3	bull frog	<i>Rana catesbeiana</i>
	northern cricket frog	<i>Acris c. crepitans</i>

Fish Species

<u>Pikes</u>	<u>Esocidae</u>
chain pickerel	<i>Esox niger</i>
northern pike	<i>Esox lucis</i>
<u>Sunfishes</u>	<u>Centrarchidae</u>
smallmouth bass	<i>Micropterus dolomieu</i>
largemouth bass	<i>Micropterus salmoides</i>
redbreast sunfish	<i>Lepomis auritus</i>
pumpkinseed	<i>Lepomis gibbosus</i>
rock bass	<i>Ambloplites rupestris</i>
<u>Bullhead/Catfishes</u>	<u>Ictaluridae</u>
brown bullhead	<i>Ameiurus nebulosus</i>
stonecat	<i>Norturus flavus</i>
marginated madtom	<i>Noturus insignis</i>
trout perch	<i>Percopsis omiscomaycus</i>

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Suckers

white sucker
creek chubsucker
northern hogsucker

Catostomidae

Catostomus commersoni
Erimyzon oblongus
Hypentelium nigricans

Sculpins

mottled sculpin
slimy sculpin

Cothidae

Cottus bairdii
Cottus cognatus

Perches

Johnnie darter
fantail darter
tessellated darter
yellow perch
blackside darter
shield darter

Percidae

Etheostoma nigrum
Etheostoma flabellare
Etheostoma olmstedii
Perca flavescens
Percina maculata
Percina peltata

Carps and Minnows

lake chub
carp
fall fish
creek chub
blacknose dace
longnose dace
cutlips minnow
common shiner
comely shiner
satinfin shiner
spottail shiner
central stone roller
river chub
bluntnose minnow
redside dace
golden shiner

Cyprinidae

Couesius plumbeus
Cyprinus carpio
Semotilus corporalis
Semotilus atromaculatus
Rhinichthys atratulus
Rhinichthys cataractae
Exoglossum maxillingua
Luxilus cornutus
Notropis amoenus
Cyrinella analostana
Notropis hudsonicus
Campstoma anomalum
Nocomis micropogon
Pimephales notatus
Clinostomus elongatus
Notemigonus crysoleucas

Trout

brown trout
brook trout
rainbow trout

Salmonidae

Salmo trutta
Salvelinus fontinalis
Oncorhynchus mykiss

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Invertebrate Species

	mourning cloak	<i>Nymphalis antiopa</i>
1	monarch butterfly	<i>Danaus plexippus</i>
	question mark	<i>Polygonia interrogationis</i>
	water strider	<i>Gerridae</i>
1	crane fly	<i>Tipulidae</i>
	scud	<i>Amphipoda</i>

Note: Bold denotes those species actually observed on site.

- 1 *Species identified during on-site ecological survey conducted by **edr** in 2012.*
- 2 *Species identified during on-site avian and bat surveys conducted by E&E in 2007 and 2008.*
- 3 *Species identified in *The Amphibians and Reptiles of New York State for Cortland County* (Gibbs et al., 2007).*
- 4 *Species identified in the USGS Breeding Bird Survey, Dryden route (Sauer et al., 2008).*
- 5 *Species identified in the NYS Breeding Bird Atlas (Survey Blocks 4071B, 4072B, 4072D, 4171A, 4172A, and 4172C).*
- 6 *Species identified in the National Audubon Society Christmas Bird Count, Cortland Count Circle (National Audubon Society, 2007).*