Wildlife Habitat Evaluation of the Canoe River in Norton MA 2006-2008 Appendix A:

<i>l</i> .	Site name:_N	Mansfie	eld town li	ne to	red mill rdObserv P	oint #_	_in river_Map# Da	te: _5/	11/06	
*	Natural Con Canopy	nmuni %	Sapling		b swamp into deep mars Shrubs	sh	Herbaceous	1%	Vines	
13	Red maple		1.0		Red osier dogwood		Purple loosestrife		Grape	
3	Swamp				Swamp rose		Three-way sedge		Climbing	

Canopy	1%	Sapling	%	Shrubs	1%	Herbaceous	%	Vines	%
Red maple				Red osier dogwood		Purple loosestrife		Grape	
Swamp white oak				Swamp rose		Three-way sedge		Climbing boneset	
Willow				Sweet pepperbush		Arrowhead			
Pine				Buttonbush		Cinnamon fern			
beech				Alder		Royal fern			
				Northern arrowwood		Fanwort			
				High bush blueberry		Water lily			
						Water celery			
						Smartweed			
						Potamogeton			

Standing snags	Observed Wildlife:	Track/Scat/Sign/Calls:
many	Muskrat Great blue heron Red winged Blackbird Mallard/duck Mayfly White tail deer Yellow warbler Boyeria nymphs	Muskrat feeding station Red winged blackbird nest in cattails Otter roll area Muskrat/Otter den maids, maids, maids put on the kettle perchickoree Star nosed mole hole?

abundant	present	absent
abundant	present	absent
12-18	,, .	>18"
	abundant abundant abundant abundant abundant abundant	abundant present abundant present abundant present abundant present abundant present

Fruit/berry bearing
Mast trees
Mud flats
Riffle/pool
Sandy banks
Shrub thickets
Sphagnum pools
Undercut banks
Wetland/Aquatic food

Surveyors: J Carlino, J Hendrickson

Natural Con	munity:	White pine oak for	rest, i	mixed oak forest, red map	le swa	mp	_
Canopy	Sapling	Shrubs	%	Herbaceous	%	Vines	%
Eastern red cedar		Red osier dogwood		Purple loosestrife		Climbing boneset	
Red maple		Speckled Alder		Smartweed		Grapes	
Atlantic white cedar		Swamp azalea		Round headed bush clover		Virginia creeper	
Willow		High bush blueberry		Wild celery	18 11		
		Sweet fern		Arrowhead			
		Meadowsweet		Yellow hawkweed	18	Potamogeton	
		Winterberry		Canada St. Johnswort		Fanwort	
				Tussock sedge			
		Japanese knotweed		Common ragwort			
				Deer tongue grass			
				Dewberry,			
				British soldiers			
				Milkweed			1

Observed Wildlife:

elegant tailed slug (packardia elagano) hummingbird moth fowler toad shadow darner clearwing meadowhawk stinkbug chickadee shiners eastern Elliptio monarch

Observed Wildlife:

Southern hairstreak
slug
red backed salamander
catbird
tiger beetle
wasp (cicada killer) caterpillar
deer
wooley bear
macremphytos cricket
turtle
great blue heron
sawfly

Track/Scat/Sign/Calls:

chewed arrow arum
1 scute found in sandbar
yellow caterpillars leave
white skins (sawfly
larvae)
turtle nest
midden

Animal burrows abundant absent present Perch over water/visibility abundant present absent Large woody debris on ground abundant present absent Rock piles, crevices, hollow logs (dens) abundant present absent abundant Rocks, logs, hummocks under water present absent Turtle nesting sites abundant present absent Vernal Pools abundant absent present 12-18" 6-12" # Snag cavities >18"

Fruit/berry bearing Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pools Undercut banks Wetland/Aquatic food

Canopy	munity %	Sapling	%	Shrubs		%	Herbaceous		%
Eastern white	50%	Eastern white pine	70%	V. palladin	i	45%	Lycopodium trist	tachyum	3%
White oak	20%	Beech	25%	V.angustife	olium	45%	Spotted winter green		4%
Black oak	10%	Red maple	naple 3% Highbush blueberry 10%		Lycopodium flab	belliforme	4%		
Scarlet oak	10%	Black oak	2%				Grass		30%
	1070						Pink lady slipper		4%
							Dillon's tick-trefo Desmodium glab	foil	3%
							Cow wheat		3%
							Eastern star flow	/er	4%
							Indian pipe		4%
							Canada mayflow	ver	4%
							Fern		10%
Standing sna a few small o 1 large broke	nes n	Spider White n	nasked	dlife:	Raccoon as perchikorey	nd fox s			91
a few small o	ones n	Spider	nasked k moth	dlife:	Raccoon ar	nd fox s			
a few small of 1 large broke tree	ones n	Spider White n	nasked k moth	dlife:	Raccoon ar	nd fox s			
a few small o	ones n	Spider White n Tussock caterpil	nasked c moth lar	abundan abundan abundan abundan abundan	Raccoon as perchikorey Gray squirment presert presert presert presert	nd fox so bird el calls	absent August Au	uit/berry bea ast trees ad flats ffle/pool	
Animal burro Perch over w Large woody Rock piles, c Rocks, logs,	ones n ——————————————————————————————————	Spider White n Tussock caterpil	nasked k moth lar	abundan abundan abundan abundan abundan	Raccoon ar perchikorey Gray squirre t preser t p	nd fox so bird el calls	absent absent absent absent absent absent San	nit/berry bea ust trees ud flats ffle/pool udy banks	uring
a few small of 1 large broke tree Animal burror Perch over wy Large woody Rock piles, care	ones n ows ater/vis debris revices, hummo g sites	Spider White n Tussock caterpil	nasked k moth lar	abundan abundan abundan abundan	t preser	nd fox sy bird el calls	absent Masabsent Riff absent San absent Shr	nit/berry bea ast trees ad flats ffle/pool	ring

Surveyors: J Carlino, J Hendrickson____

Site name:2- Newland Street (North) Water Dept Land Observation Point # 2 Map# Date: _8/9/07____

Natural	Communi	tv. White	nine oak
Natural	Communi	IV. WHILE	Dine oak

Canopy	%	Sapling	%	Shrubs	%	Herbaceous	%	Vines	%
Eastern white pine	50%	Beech	25%	American hazelnut	45%	Indian pipe	2%	P.ivy	
Big toothed aspen	20%	Eastern white pine	60%	Vaccinium paladin	45%	Cow wheat	10%		
White oak	10%	Red maple	5%	Buckthorn	5%	Eastern star flower	10%		
Northern red oak	10%	Big toothed aspen	10%	European high bush blueberry	5%	Lady slipper			
Black oak	5%					L. tristiachyum	10%		
Mocker nut	5%					L. flabelliforme	10%		
						Spotted wintergreen	2%		
						Fern	45%		
						Haircap moss	1%		
			-			Canada mayflower	10%		

Standing snags	Observed
20%	Ants Crickets
2010	Slug
10% on ground	Flat snail Squirrel s
	eaten bird chewed m
	Spider
	Daddy lor
	-

Observed Wildli Ants	_
Crickets	_
Slug	
Flat snail	
Squirrel sign	
eaten bird(feather	s)
chewed mushroon	n
Spider	1000
Daddy long legs	

 Frack/Scat/sign/ Calls Chipmunk burrows	

Animal burrows	abundant	present	absent
Perch over water/visibility	abundant	present	absent
Large woody debris on ground	abundant	present	absent
Rock piles, crevices, hollow logs (dens)	abundant	present	absent
Rocks, logs, hummocks under water	abundant	present	absent
Turtle nesting sites	abundant	present	absent
Vernal Pools	abundant	present	absent
# Snag cavities 1-3" 6-12"	12-18	,,	>18"

Fruit/berry bearing
Mast trees
Mud flats
Riffle/pool
Sandy banks
Shrub thickets
Sphagnum pools
Undercut banks
Wetland/Aquatic food

Surveyors: J Carlino, J Hendrickson, J Nardozz, J Guerrero, P Macleod

	nity:	Cultural Gr	months and desired as					
Shrubs	%	Herbaceous	%	Herbaceous		%	Vines	%
Autumn olive		Smartweed		Yarrow				
	-	Blue toadflax		Blue curls				
		Mullein		Golden rod				
		Jewelweed		Foxtail grass				
	-	Reindeer lichen		White aster				
	-	Purple aster		Cabbage white				
	-	Silver rod		Pearly everlast				
		Butter & eggs		Rabbits foot cl	N A 88			
		Chickory		Little bluesten	The state of the s			
		Red sorrel		Bidens-beggar				
		Daisy fleabane		Black raspberr	У	+		-
Observed Wi Clouded sulfu Orange sulfur Great spangled Pearl crescent Lestes Cormorants Grey hairstrea American cop Crow Golden digger	r d fritill k per	ary		Common green of Praying mantis Garter snake Velvet ant Moth Monarch Smooth tiger beet Slender spreadwing and spreadwing s	darner			38
Animal burrows Perch over water/visibility Large woody debris on ground Rock piles, crevices, hollow logs (dens) Rocks, logs, hummocks under water Turtle nesting sites Vernal Pools # Snag cavities6-12"		abundant abundant abundant abundant abundant abundant abundant abundant	present present present present present present present	absent absent absent absent absent absent absent >18"	Mas Muc Riff Sand Shru Spha	t/berry beat t trees if flats le/pool dy banks ub thickets agnum pool ercut bank	ols	

Open space committee members, Dave Small, Earl Baldwin_____

Surveyors:

Canopy	%	Sapling	%	Shrubs		%	Herbaceous		%
Eastern white pine	50%	Beech	3%	Highbus		60%	Striped wint	ergreen	10%
, and the second		Eastern white pine	75%	Lowbus bluebern augustif	h y V.	20%	Lady slipper		30%
Black oak	20%	Northern red oak	20%	Swamp		20%	Hay scented	fern	30%
White oak	10%	Birch (gray)	1%				Grass		1%
Scarlet oak	20%	Black cherry	1%			-	Red maple		5%
							Clump grass	es	5%
							Canada may	flower	5%
							Eastern starf	lower	5%
							Pinesap		1%
							complanatum	5%	
							Indian pipes		1%
							Moss		1%
							Lichen	-	1%
Standing s	nags	Observe	d Wildl	iife:	Track/S Cardinal canine/ra mushroo	ccoon?	scat/ squirrel/c	hipmunk/sign	
Rock piles.	water/v dy debri , crevice s, humn ing sites	is on ground es, hollow logs (d nocks under wate		abunda abunda abunda abunda abunda abunda	nt pre nt pre nt pre nt pre nt pre	esent sent sent sent sent sent sent	absent absent absent absent absent absent absent >18"	Fruit/berry be Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum po Undercut banl Wetland/Aqua	s ols ks

Canopy	y: %	Shallow emergent marsh Shrubs	1%	Herbaceous	%	Vines	%
Red Maple		Red Osier Dogwood	1	Joe Pye Weed	1	Climbing Boneset	
Swamp White Oak		Swamp Rose		Smartweed		Riverbank Grape	
		Button Bush		Wild Celery			
		HighBush Blueberry		Arrow Arrum			
		Northern Arrow Wood	Wood	Monkey Flower			
		Elderberry		Pickerel Weed			
				Milk Weed			
			10	Fanwort			
1000 Voi. 1000			0	Clear Weed			
				Saxifrage			
	1	River Jewel Wing Monarch Butterfly Elegant Spread Wing Ebony Jewelwing					with the
Animal burrows Perch over water/vi Large woody debris	s on g	ty abur round abur	ndant ndant ndant	present present present present	ab ab	sent Fruit/berr sent Mast tree sent Mud flats sent Riffle/poo	-

atural Co							ned on map: Y/N			
anopy	%	Sapling	%	Shrubs		%	Herbaceous	%	Vines	%
										+
Standing snags		_Wood Fowler' Ebony j Red inse Moths Cocoon striped) Swamp Fetterbu	Frog s toad ewelw ect s (brov	ing vn			Sign/Calls:		•00	
Rock piles Rocks, log Turtle nest	water/v dy debri , crevice s, humn ing sites	is on ground es, hollow logs (nocks under wat		abund abund abund abund abund abund	ant ant ant ant ant	present present present present present present	absent absent absent absent absent	Mast Mud Riffle Sandy Shrub	flats /pool / banks o thickets	
Vernal Poo # Snag cav			6-12"	abund	ant 12-18"	present	absent		gnum pool rcut banks	

	%	uccessional white pir Sapling	%	Shrubs	%	Herbaceous	1%
Canopy Eastern white pine	1/0	Eastern white pine	1,0	Highbush blueberry	1,0	Hay Scented Fern	1
sustern winte pine		Northern red oak		European Buckthorn		Common dewberry	
		White oak		Europeun Ducktion		Canada Mayflower	+
		Black oak				Green Briar	
		Black Cherry				Poison ivy	
		Diden Cherry				Northern Arrowwood	
						Royal Fern	
						Goldenrod	
	\top					Virginia Creeper	
Standing snags		Observed Wildlife	:	Track/Scat/Sign/G	Calls:		
			-				

Surveyors:__J Carlino, Open space committee members_____

5. Site name: 5 S Newland St Water Dept (Pump House) Upland W/CVP_Obsv Point B#_Date 9/13/2007

Canopy	%	Sapling	%	Shrubs	%	Herbaceous	%	Vines	%
Eastern white pine	50	Tupelo	10	European Buckthorn	10	Eastern Starflower		Green Briar	
White oak	20	White oak	10	Early lowbush blueberry	10	Diphasiastrum Digtatum		Poison ivy	
Red maple	10	Northern red oak	10	Late lowbush blueberry	20	Dendrolycopedium Obscurum		Bittersweet	
Black oak	10	Eastern white pine	40	Swamp azalea	10	Canada mayflower			
Scarlet oak	10	Scarlet oak	10	Winterberry	10	Grasses			
		Black oak	10	Japanese barberry	10	Striped wintergreen			
		Red maple	10	Black huckleberry	30	Black cherry			
						Common dewberry		Ü	
						Cinnamon fern			
						Wild sarsaparilla			

Standing snags	Observed Wildlife:	Track/Scat/Sign/Calls:	
Present	_Wood frog	Deer scat Gray tree frog call Cricket Squirrel sign	••••

Animal burrows	abundant	present	absent
Perch over water/visibility	abundant	present	absent
Large woody debris on ground	abundant	present	absent
Rock piles, crevices, hollow logs (dens)	abundant	present	absent
Rocks, logs, hummocks under water	abundant	present	absent
Turtle nesting sites	abundant	present	absent
Vernal Pools	abundant	present	absent
# Snag cavities 6-12"	12-18	,,	>18"

Fruit/berry bearing
Mast trees
Mud flats
Riffle/pool
Sandy banks
Shrub thickets
Sphagnum pools
Undercut banks
Wetland/Aquatic food

Surveyors:	Jim, Jenn, P	at				
						_

5- Site name: 5 Newland St Water Dept_Observation Point #_ C Map#_ Date: 9/30/2007_

Natural	Community:	Cultural	grassland
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Canopy	%	Sapling	%	Herbaceous	Herbaceous
Scarlet oak	20	Black locust		Goldenrods	Little bluestem
Big tooth aspen	15	Red cherry		Frost Grape	Dwarf dandelion
Black locust	15	Big tooth aspen		Haircap moss	Common yellow wood sorrell
Black cherry	10	Scarlet oak		Orange grass	Small pussy toes A. neodioica
Pin cherry	5	Black cherry		Swamp beggar's- ticks	Lance leaved goldenrod (S. graminifolia)
Gray birch	10	Gray birch		Yarrow	Pearly everlasting
Red maple	10	Pitch pine		Spirea	Aster small wWhite
Eastern white pine	10			Black raspberry	Indian tobacco
Common catalpa	5			British soldier	Gray goldenrod (S. memoralis)
Quaking aspen				Rushes	Round headed bush clover
					Rough stemmed goldenrod (S. rugosa)
		Shrubs			Multi flora rosa
		Pin cherry	10		Common mugwort
		Autumn olive	90		Virginia creeper
		A. vinineus			Bittersweet
		-			Cinquefoil

Observed Wildlife:

Crickets

Smooth Brown Snake

American Toad Cardinal

Pearl Crescent

Eastern Tailed Blue

Praying Mantis

Monarch Blue Jay

Cabbage White

Golden Digger Wasp

Nests

Raccoon Scat

Locust Borer Beetle

Animal burrows	abundant	present	absent
Perch over water/visibility	abundant	present	absent
Large woody debris on ground	abundant	present	absent
Rock piles, crevices, hollow logs (dens)	abundant	present	absent
Rocks, logs, hummocks under water	abundant	present	absent
Turtle nesting sites	abundant	present	absent
Vernal Pools	abundant	present	absent
# Snag cavities 6-12"	12-18	**	>18"

Surveyors: Jim, Pat, Jenn 9/9/2007 Joan Jim Jenn

Canopy	%	Sapling	1%	Shrubs	%	Herbaceo	ous	%
astern white pine	<1%	Supring	10	Meadowsweet	20%	Bluesten	A STATE OF THE PARTY OF THE PAR	170
Oak	<1%			Bayberry	5%	British so	-	
	170			Daycerry	1070	Other gra		
						Other mo		
	1					Dewberr	The state of the s	
						Sheep so		
						Reindeer		
						Western Commencer of the Commencer of th		
Standing snags	C R M	ardinal obin lourning cl nt hills			s/Scat/Sign/C	alls:		
Animal burrows	-1537-			The state of the s	present	absent	Fruit/berr Mast tree:	
Perch over water/vi Large woody debris		nd			present present	absent absent	Mud flats	
Rock piles, crevices			4		present	absent	Riffle/poo	
Rocks, logs, humm			,	100 100 100	present	absent	Sandy bar	
Turtle nesting sites	oeks and	or water		A CONTRACTOR OF THE PARTY OF TH	present	absent	Shrub this	
Vernal Pools					present	absent	Sphagnun	
# Snag cavities		6-12	2"	12-18"		>18"	Undercut	

Surveyors: J Carlino

% Sa	apling %	Shrubs		%	Herbaceous	%	Vines	%
						_		+
_								
	S							_
25	Observed W	<u>'ildlife</u> :	Trac	k/Scat	/Sign/Calls:			
- - - -	Ruby meado Land snails	w hawk						
_								
-								
-								
-			200				•••	
-								
-								
rs.		abund	lant	presen	t absent	Fruit/	berry bear	ing
er/visib		abund	lant	**************************************	t absent	Mast	trees	
						550000000000000000000000000000000000000		
	is under water	A 100 TO	0.000					
		abund	lant					
	6-12	" —	12-18"		>18"	5.00		
	s er/visib ebris or vices, hummockites	Meadowhaw Ruby meador Land snails Dragonflies ser/visibility ebris on ground vices, hollow logs (dens) mmocks under water sites	Meadowhawk Ruby meadow hawk Land snails Dragonflies Ser/visibility ebris on ground vices, hollow logs (dens) abund wices, hollow logs (dens) abund	Meadowhawk Ruby meadow hawk Land snails Dragonflies s abundant er/visibility abundant erivisibility abundant vices, hollow logs (dens) abundant mmocks under water abundant sites abundant abundant abundant abundant	Meadowhawk Ruby meadow hawk Land snails Dragonflies ser/visibility ebris on ground vices, hollow logs (dens) mmocks under water sites abundant presen	Meadowhawk Ruby meadow hawk Land snails Dragonflies s abundant present absent er/visibility abundant present absent er/visibility abundant present absent vices, hollow logs (dens) abundant present absent enmocks under water abundant present absent absent enmocks under water abundant present absent absent abundant present absent	Meadowhawk Ruby meadow hawk Land snails Dragonflies s abundant present absent er/visibility abundant present absent vices, hollow logs (dens) abundant present absent sites abundant present absent absent absent abundant present absent abundant abundant present absent abundant present absent abundant present absent abundant present abundan	Meadowhawk Ruby meadow hawk Land snails Dragonflies ser/visibility abundant present absent er/visibility abundant present absent wices, hollow logs (dens) abundant present absent wices, hollow logs (dens) abundant present absent absent mmocks under water abundant present absent sites abundant present absent sheet sheet abundant present absent sites abundant present absent shrub thickets abundant present absent shrub thickets Sphagnum pool

Natural Communi Canopy	%	Sapling	%	Shrubs		%	Confirmed on m	1%	Vines	9%
Red cedar	70	Beech	70	Highbu	sh	70	Grass	70	Oriental	70
		3500000000		blueben					bittersweet	
Eastern white pine		Red maple		Bayberr			Bluestem		Poison ivy	
Gray birch				Europea			Cinquefoil		Greenbrier	
				bucktho						
Black cherry				Japanes			Sheep sorrel			
4 1 4/1 40	-			barberry		-		-		
Mockernut/pignut?				Norther			Moss			
Pin cherry			_	arroww	oou		Mushrooms	-		
Shagbark hickory							Pussytoes	1		
Northern red oak							Goldenrod	1		
Black oak							Norway maple			
Scarlet oak							Black raspberry			
							Gill on the ground			
							Indian pipe			
							Dendrolycopodium			
							Eastern starflower			
					Gray Hors	kadee squirr e track k (sno				
Animal burrows	visibil	lity ground bllow logs (de	ns)	abund abund abund abund	ant ant	preser preser preser preser	nt absent nt absent nt absent	Mas Mud Riffl	t/berry bearing t trees flats e/pool ly banks	g

Surveyors: J Hendrickson, J Carlino

Natural Community:	White pin	e/oak for	rest					
Canopy	%	Saplin		%	Shrubs	%	Herbaceous	%
astern white pine	50	White		60			Wild Strawberry	10
Red maple	20	White	oak	10			Hay Scented Fern	50
Beech	5	Scarle	t oak	10			Cinnamon Fern	20
Vhite oak	5	Black	oak	10			NY Fern	10
Black oak	5	Beech	ì	10			Royal Fern	10
carlet oak	5							
Northern Red oak	5			- 3				
Atlantic white cedar	5	-						-
				+				
							•35	
Animal burrows			abundan		resent	absen	t Fruit/berry bea	
Perch over water/visib			abundan	t p	resent	absen	t Fruit/berry bea	
Perch over water/visib Large woody debris on	ground		abundan abundan	t p	resent resent	absen absen	t Fruit/berry beat Mast trees Mud flats	
Perch over water/visib Large woody debris on Rock piles, crevices, h	ground ollow logs (abundan abundan abundan	t p	resent resent resent	absen absen absen	t Fruit/berry beat Mast trees Mud flats t Riffle/pool	
Perch over water/visib Large woody debris on Rock piles, crevices, h Rocks, logs, hummock	ground ollow logs (abundan abundan abundan abundan	t p t p t p	resent resent resent resent	absen absen absen absen	f Fruit/berry beat Mast trees Mud flats Riffle/pool to Sandy banks	aring
Perch over water/visib: Large woody debris on Rock piles, crevices, h Rocks, logs, hummock Turtle nesting sites	ground ollow logs (abundan abundan abundan abundan abundan	t p t p t p t p t p	resent resent resent resent resent	absen absen absen absen absen	Fruit/berry beat Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets	aring
Perch over water/visib: Large woody debris on Rock piles, crevices, h Rocks, logs, hummock Turtle nesting sites Vernal Pools	n ground ollow logs (as under water	er	abundan abundan abundan abundan abundan abundan	t p t p t p t p t p t p	resent resent resent resent	absen absen absen absen absen absen	Fruit/berry beat Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pool	aring
Perch over water/visib: Large woody debris on Rock piles, crevices, h Rocks, logs, hummock Turtle nesting sites	n ground ollow logs (as under water		abundan abundan abundan abundan abundan abundan	t p t p t p t p t p	resent resent resent resent resent	absen absen absen absen absen	Fruit/berry beat Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pool Undercut bank	aring ols
Perch over water/visib: Large woody debris on Rock piles, crevices, h Rocks, logs, hummock Turtle nesting sites Vernal Pools	n ground ollow logs (as under water	er	abundan abundan abundan abundan abundan abundan	t p t p t p t p t p t p	resent resent resent resent resent	absen absen absen absen absen absen	Fruit/berry beat Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pool	aring ols
Perch over water/visib: Large woody debris on Rock piles, crevices, h Rocks, logs, hummock Turtle nesting sites Vernal Pools	n ground ollow logs (as under water	er	abundan abundan abundan abundan abundan abundan	t p t p t p t p t p t p	resent resent resent resent resent	absen absen absen absen absen absen	Fruit/berry beat Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pool Undercut bank	aring ols

All Species	All Species		One water	er sample	Plants
Tufted titmouse	Rough wing	ged swallow	Isopods		Red osier dogwood
Canada geese	Painted turt	le	Amphipo	ods	Muskrat midden
Great blue heron	Brown head	led cowbird	Caddisfli	ies (larvae)	
Wood duck	Barn swallo	w	Mayfly a	dult	
Mallard	Chimney sw	vift	Leech		
Snowy egret			Chironor	nid midge larvae	
Red tailed hawk			Damselfl		
Free swallow	-		Water str	- CONTROL CONTROL	
Red winged blackbird					
Cooper's hawk			+		
•			-		
Falcon Yellow warbler			+		
Mourning dove					
Blacked capped chickadee					
Song sparrow (call)					
Animal burrows Perch over water/visibility Large woody debris on groun Rock piles, crevices, hollow I Rocks, logs, hummocks under Turtle nesting sites Vernal Pools # Snag cavities	ogs (dens)	abundant abundant abundant abundant abundant abundant abundant	present present present present present present	absent absent absent absent absent absent absent absent ->18"	Fruit/berry bearing Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pools Undercut banks Wetland/Aquatic food
Animal burrows Perch over water/visibility Large woody debris on groun Rock piles, crevices, hollow I Rocks, logs, hummocks under Furtle nesting sites Vernal Pools # Snag cavities	ogs (dens)	abundant abundant abundant abundant abundant abundant abundant	present present present present present present present	absent absent absent absent absent absent absent absent	Fruit/berry bearing Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets Sphagnum pools Undercut banks Wetland/Aquatic foo

Canopy	%	ty: Deep eme Sapling	%			9%	Herbaceous	%	Vines	10
Atlantic		Red osier	1	Swam			Purple loosestrife		Other aquatic	Ť
white cedar		dogwood		14.11					vegetation	
Red maple		Buttonbush					Cattail		Climbing boneset?	
									Water Celery	
									Lily Pad	
									Smartweed	+
Standing sn Yes – too far get out of ca to measure	to noe	Red wing Geese Ducks 2 dead Re pickerel 2 Painted Mourning Red tail I Caddisfli Isopods	g blaced find turting closurawk	ekbird n le ak	Mu	skrat	mound eat Maids Maids, put on	the	kettle	
Animal burre	vater/ debi	visibility ris on ground es, hollow log mocks under v			abunda abunda abunda abunda abunda abunda abunda	nt nt nt nt nt	present al	osent osent osent osent osent osent	bearing Mast trees Mud flats Riffle/pool Sandy banks	ols

Surveyors: __Jim H, Jenn C _____

Canopy	Sapling	Shrubs	%	Herbaceous	%	Vines	T
		Buttonbush		Purple loosestrife		Climbing boneset	1
		Swamp rose		Tussock sedge			+
		Red osier dogwood		Pickerelweed			1
		Northern arrowwood		Wild celery			Ī
		Sweet gale		Arrow arrum			1
			1	Arrowhead	_		4
				White and pink smartweeds	_		4
	_		-	Joe pye-weed White waterlilies	-		+
	-		+	Yellow waterlilies	_		+
			+	Fanwort	-		+
			+	Potamogeton	-		+
			_	7:			1
		Green heron Geese Variable Dancer Ebony jewelwing Eastern pondhawk Common green Darner Blue dasher Eastern amberwin Dragonhunter Blue skimmer? Eastern forktail Cicada Monarch		Mink/otter den			
Perch of Large w Rock pi			abundabundabundabundabundabundabundabund	dant present abset dant present abset dant present abset dant present abset	nt nt nt nt	Fruit/berry bearing Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets	

Surveyors: open space committee and other participants

	%	k-hemlock-white pin Sapling	1%	Confirmed on map: Shrubs	1%	Herbaceous	1%
Canopy Vhite oak	20	Eastern white pine		Highbush blueberry	30	Princess pine	30
lack oak	20	American beech	5	Early lowbush blueberry	10	Nodding pagonia	5
carlet oak	20	Red maple	5	Late lowbush blueberry	10	Hayscented fern	15
led maple	30	Scarlet oak	5	Sweet pepperbush	50	Wintergreen	30
astern white pine	10	Black oak	5			Pink lady slipper	5
		White oak	5			Marsh fern	15
Standing snags]	Observed Wildli	fe:	Track/Scat/Sign/Calls:	is a		_
few			_				
			=				
			=				
			_				
			_				1
			_				
			-				
			=				
Animal burrows	rieihil	itv	abunda			Fruit/berry beari Mast trees	ng
Perch over water/v			abunda			Mud flats	
Perch over water/v Large woody debr			abunda		27000	Riffle/pool	
Large woody debr	es, no		abunda		ent	Sandy banks	
Large woody debr Rock piles, crevice		under water			ent	Shrub thickets	
Large woody debr	nocks	under water	abunda				
Large woody debr Rock piles, crevice Rocks, logs, humn	nocks	under water 6-12"	abunda			Sphagnum pools Undercut banks	

Surveyors:__Joan and Jim_____

Canopy	%	Sapling	%	Shrubs		%	Herbaceous	%	Vines %
Standing		Great Blu Common Blue jay Pine wart Brown cr Yellow w Canada ge Black cap American Warbling White bre Chipping	e Hero yellow eeper arbler pose ped ch goldfi vireo asted r	ickadee	Euro Rub Grav Balt Rob Hou Grea	y throat y catbird imore o in se wren	ed humming bird d riole		
Rock piles	r water/v ody debr s, crevice gs, humn ting sites ols	is on ground es, hollow log nocks under w		abund abund abund	ant ant ant ant ant	presen presen presen presen presen presen	absent absent absent absent absent absent absent absent	Mast Mud Riffle Sandy Shrul Spha Unde	

anopy	%	Sapling	%	Shrubs	%	Herbaceous		%	Herbaceous	9/
				Sweet Fern		Buttonweed			Black raspberry	
				Scrub Oak		Partridge Pea			Blue Stem	
						Orange grass				
						Nodding smar	rtweed			
						Blue curls				
						Horseweed				
						Field Pepperg	rass			
						Round headed				
						Carpetweed				
						Spotted knapy	weed			
						Goldenrod				
						Blue toad flax				
						Daisy fleaban	e			
						Rabbit's foot				
						Plantain				
		_		shoppers						
				shoppers erfly						
		ows vater/visil	Butto		abi	undant pre		bsent	Fruit/berry bear	ring
Perch o Large v	ver w	vater/visil v debris o	Butto bility on gro	und	abi abi	undant pre undant pre undant pre	esent a	bsent bsent	Mast trees Mud flats	ring
Perch o Large v Rock pi	ver w	vater/visil y debris o crevices, l	Butto bility on gro hollov	und v logs (dens)	abi abi abi	undant pre undant pre undant pre undant pre	esent a esent a	bsent bsent bsent	Mast trees Mud flats Riffle/pool	ring
Perch o Large v Rock pi Rocks,	ver w voody iles, c logs,	vater/visil y debris o crevices, hummoc	Butto bility on gro hollov	und	abi abi abi	undant pre undant pre undant pre undant pre undant pre undant pre	esent a esent a esent a	bsent bsent bsent bsent	Mast trees Mud flats Riffle/pool Sandy banks	ring
Perch o Large v Rock pi Rocks, Furtle r	ver w voody iles, c logs, nestin	vater/visil y debris of crevices, l hummoc g sites	Butto bility on gro hollov	und v logs (dens)	abi abi abi abi	undant pre undant pre undant pre undant pre undant pre undant pre undant pre	esent assent ass	bsent bsent bsent bsent bsent	Mast trees Mud flats Riffle/pool Sandy banks Shrub thickets	
Large v Rock pi	ver woody iles, c logs, nestin	vater/visil y debris of crevices, l hummoc g sites	Butto bility on gro hollov	und v logs (dens)	abi abi abi abi	undant pre undant pre undant pre undant pre undant pre undant pre undant pre	esent assent ass	bsent bsent bsent bsent	Mast trees Mud flats Riffle/pool Sandy banks	ls

//. Site name:_11-Linoln Woods, hill below gravel pit & trail to Sawyers house Date: 9/25/07

Natural Community: Mixed oak

Canopy	%	Sapling	%	Shrubs	%	Herbaceous	%
Scarlet Oak	10	White oak	60	Dwarf Huckleberry (G. Dumosa)	50	Pokeweed	
White Oak	10	Red Maple	10	Early Lowbush blueberry (C. vacillans)		Indian pipes	5
Northern red oak	40	Northern red oak	10	Black cherry		(trail) grasses	
Black Oak	40	Scarlet	10				
		White Oak	10				
	-		-				+

Standing snags	Observed Wildlife:	Track/Scat/Sign/Calls:
_lots of recent dead oak		Deer scat Gray tree frog
		4/

Animal burrows	abundant	present	absent
Perch over water/visibility	abundant	present	absent
Large woody debris on ground	abundant	present	absent
Rock piles, crevices, hollow logs (dens)	abundant	present	absent
Rocks, logs, hummocks under water	abundant	present	absent
Turtle nesting sites	abundant	present	absent
Vernal Pools	abundant	present	absent
# Snag cavities 6-12"	12-18	,,	>18"

Surveyors:	Jenn Carlino, Jim Hendrickson	
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