

DFW Pre-Harvest Flora
Birch Hill WMA, Winchendon, Massachusetts
Date of survey: 7/15, 7/17, 7/18 2006
Surveyed by Private Contractor
Location of lot(s): East of New Boston Road

General description and setting

Six lots are marked along a 2.5 km stretch of New Boston Road, south of River Road. Two of the lots are red pine plantations, the remaining lots are primarily white pine stands with varying amounts of mixed hardwoods. Wetlands and small streams are common in and around the marked stands. All have been delineated and buffered from areas marked for harvest. Wetlands and filter strips have been inventoried separately from the marked stands. The northernmost stand (RP-ST-1) was divided into northern and southern portions for inventory.

Significant Flora and Habitats

No rare species, priority natural communities, or significant habitats were found. The forests are all post agricultural plantations and white pine dominated types with floras typical of the northern Worcester Plateau. Checkered rattlesnake plantain *Goodyera tessellata* was common in the stand, and some unusual individual plants resembled dwarf or lesser rattlesnake plantain *Goodyera repens* (Endangered) in one portion of the stand. *G. tessellata* can be difficult to distinguish from *G. repens*, so a specimen was collected and sent to an orchid expert for an expert opinion. The specimen was confirmed as the common *G. tessellata*.

Invasive Species

Three non-native invasive species are resident in the stands; glossy buckthorn (*Rhamnus frangula*), Morrow's honeysuckle (*Lonicera morrowii*) and Japanese barberry (*Berberis thunbergii*). Seedling stems of these invasive plants occurred within the stands, and some large individuals occur outside the stands. The invasive species occur as scattered individuals or in small, low density patches. None are currently aggressive. These species may respond favorably to increased light and disturbance associated with the planned harvest. *Note: Prior to the harvesting operation, mechanical control efforts were conducted to locate and pull invasive plant seedlings within the harvest area.*

WMA Pre-harvest Floras

Birch Hill WMA

Survey by Private Contractor, July, 2006

RP ST-1 North

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>
Pinus resinosa	red pine	C	3	3	Tree
Pinus strobus	eastern white pine	C	2	1	Tree
Quercus rubra	northern red oak	C	1	1	Tree
Acer rubrum	red maple	U	1	1	Tree
Apocynum cannabinum	Indianhemp	U	1	1	Forb/herb
Aralia nudicaulis	wild sarsaparilla	U	2	2	Subshrub, Shrub, Forb/herb
Aronia melanocarpa	black chokeberry	U	2	1	Shrub
Betula papyrifera	paper birch	U	1	1	Tree
Betula populifolia	gray birch	U	1	1	Tree
Carex debilis	white edge sedge	U	1	1	Graminoid
Carex pensylvanica	Pennsylvania sedge	U	1	1	Graminoid
Coptis trifolia ssp. groenlandica	goldthread	U	1	1	Subshrub
Cornus canadensis	bunchberry dogwood	U	1	1	Subshrub, Shrub, Forb/herb
Corylus cornuta	beaked hazelnut	U	1	1	Tree, Shrub
Dalibarda repens	robin runaway	U	1	1	Forb/herb
Danthonia spicata	poverty oatgrass	U	1	1	Graminoid
Diphasiastrum digitatum	Clubmoss	U	1	1	
Epigaea repens	trailing arbutus	U	2	1	Subshrub, Shrub
Fagus grandifolia	American beech	U	1	1	Tree
Gaultheria procumbens	eastern teaberry	U	2	2	Subshrub, Shrub
Ilex verticillata	common winterberry	U	1	1	Tree, Shrub
Juniperus communis	common juniper	U	1	1	Tree, Shrub
Kalmia angustifolia	sheep laurel	U	2	1	Shrub
Lycopodium annotinum	stiff clubmoss	U	1	2	Subshrub, Shrub
Lycopodium hickeyi	Pennsylvania clubmoss	U	1	1	Subshrub, Forb/herb
Lycopodium obscurum	rare clubmoss	U	1	1	Subshrub, Shrub
Maianthemum canadense	Canada mayflower	U	3	2	Forb/herb
Melampyrum lineare	narrowleaf cowwheat	U	1	1	Forb/herb
Mitchella repens	partridgeberry	U	1	1	Subshrub, Shrub, Forb/herb
Onoclea sensibilis	sensitive fern	U	1	1	Forb/herb
Oryzopsis asperifolia	roughleaf ricegrass	U	2	1	Graminoid
Picea rubens	red spruce	U	1	1	Tree
Pinus strobus	eastern white pine	U	1	1	Tree
Potentilla simplex	common cinquefoil	U	1	1	Forb/herb
Prunus serotina	black cherry	U	1	1	Tree, Shrub
Pteridium aquilinum var. latiusculum	western brackenfern	U	2	2	Forb/herb
Quercus rubra	northern red oak	U	1	1	Tree
Rhamnus frangula	glossy buckthorn	U	1	1	Shrub
Rubus flagellaris	northern dewberry	U	3	2	Shrub
Rubus hispidus	bristly dewberry	U	1	1	Shrub
Spiraea alba var. latifolia	white meadowsweet	U	1	1	Shrub
Trientalis borealis	starflower	U	2	1	Forb/herb
Tsuga canadensis	eastern hemlock	U	1	1	Tree
Vaccinium angustifolium	lowbush blueberry	U	3	3	Subshrub, Shrub
Vaccinium corymbosum	highbush blueberry	U	1	1	Shrub
Vaccinium myrtilloides	velvetleaf huckleberry	U	1	1	Subshrub, Shrub
Viburnum nudum var. cassinoides	withe-rod	U	2	1	Tree, Shrub

¹C = Canopy (Overstory), U = Understory

²1 = Occasional, 2 = Common, 3 = Abundant

³1 = Sparse, 2 = Moderate, 3 = Dense

Birch Hill WMA

RP ST-1 South

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>
<i>Pinus resinosa</i>	red pine	C	1	3	Tree
<i>Pinus strobus</i>	eastern white pine	C	3	3	Tree
<i>Acer rubrum</i>	red maple	U	1	1	Tree
<i>Apocynum cannabinum</i>	Indianhemp	U	1	1	Forb/herb
<i>Aralia nudicaulis</i>	wild sarsaparilla	U	1	1	Subshrub, Shrub, Forb/herb
<i>Betula populifolia</i>	gray birch	U	1	1	Tree
<i>Carex albicans</i>	Sedge	U	1	1	Graminoid
<i>Carex albicans</i>	whitetinge sedge	U	1	1	Graminoid
<i>Carex debilis</i> var. <i>rudgei</i>	white edge sedge	U	1	1	Graminoid
<i>Cornus canadensis</i>	bunchberry dogwood	U	1	1	Subshrub, Shrub, Forb/herb
<i>Dalibarda repens</i>	robin runaway	U	1	1	Forb/herb
<i>Danthonia spicata</i>	poverty oatgrass	U	1	1	Graminoid
<i>Diphasiastrum digitatum</i>	clubmoss	U	2	2	
<i>Diphasiastrum tristachyum</i>	clubmoss	U	1	2	
<i>Dryopteris intermedia</i>	intermediate woodfern	U	1	1	Forb/herb
<i>Epigaea repens</i>	trailing arbutus	U	1	1	Subshrub, Shrub
<i>Fagus grandifolia</i>	American beech	U	1	1	Tree
<i>Gaultheria procumbens</i>	eastern teaberry	U	2	1	Subshrub, Shrub
<i>Juniperus virginiana</i>	eastern redcedar	U	1	1	Tree
<i>Kalmia angustifolia</i>	sheep laurel	U	2	2	Shrub
<i>Lycopodium clavatum</i>	running clubmoss	U	1	2	Subshrub, Shrub
<i>Lycopodium hickeyi</i>	Pennsylvania clubmoss	U	1	2	Subshrub, Forb/herb
<i>Maianthemum canadense</i>	Canada mayflower	U	2	1	Forb/herb
<i>Melampyrum lineare</i>	narrowleaf cowwheat	U	1	1	Forb/herb
<i>Mitchella repens</i>	partridgeberry	U	1	1	Subshrub, Shrub, Forb/herb
<i>Picea rubens</i>	red spruce	U	1	1	Tree
<i>Pinus strobus</i>	eastern white pine	U	2	2	Tree
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	western brackenfern	U	2	2	Forb/herb
<i>Quercus rubra</i>	northern red oak	U	1	1	Tree
<i>Rubus flagellaris</i>	northern dewberry	U	2	2	Shrub
<i>Spiraea alba</i> var. <i>latifolia</i>	white meadowsweet	U	1	1	Shrub
<i>Trientalis borealis</i>	starflower	U	3	1	Forb/herb
<i>Tsuga canadensis</i>	eastern hemlock	U	2	1	Tree
<i>Vaccinium angustifolium</i>	lowbush blueberry	U	2	3	Subshrub, Shrub
<i>Vaccinium corymbosum</i>	highbush blueberry	U	1	1	Shrub
<i>Vaccinium myrtilloides</i>	velvetleaf huckleberry	U	1	1	Subshrub, Shrub
<i>Viburnum nudum</i> var. <i>cassinoides</i>	withe-rod	U	1	1	Tree, Shrub

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Birch Hill WMA

RP ST-6

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>	
Pinus resinosa	red pine	C		3	3	Tree
Pinus strobus	eastern white pine	C		1	2	Tree
Acer pensylvanicum	striped maple	U		1	1	Tree, Shrub
Acer rubrum	red maple	U		2	1	Tree
Acer saccharum	sugar maple	U		1	1	Tree, Shrub
Achillea millefolium	common yarrow	U		1	1	Forb/herb
Apocynum androsaemifolium	spreading dogbane	U		1	1	Forb/herb
Aralia nudicaulis	wild sarsaparilla	U		1	1	Subshrub, Shrub, Forb/herb
Aralia nudicaulis	wild sarsaparilla	U		1	1	Subshrub, Shrub, Forb/herb
Aronia melanocarpa	black chokeberry	U		1	1	shrub
Berberis thunbergii	Japanese barberry	U		1	1	Shrub
Betula papyrifera	paper birch	U		1	1	Tree
Brachyelytrum septentrionale	northern shorthusk	U		1	1	Graminoid
Carex debilis var. rudgei	white edge sedge	U		2	1	Graminoid
Carex paleacea	chaffy sedge	U		1	1	Graminoid
Carex swanii	Swan's sedge	U		1	1	Graminoid
Clintonia borealis	bluebead	U		1	1	Forb/herb
Coptis trifolia ssp. groenlandica	goldthread	U		1	1	Subshrub
Cornus alternifolia	alternateleaf dogwood	U		1	1	Tree, Shrub
Cornus amomum	silky dogwood	U		1	1	Shrub
Cornus canadensis	bunchberry dogwood	U		1	1	Subshrub, Shrub, Forb/herb
Corylus cornuta	beaked hazelnut	U		1	1	Tree, Shrub
Dalibarda repens	robin runaway	U		1	1	Forb/herb
Danthonia compressa	flattened oatgrass	U		1	1	Graminoid
Dennstaedtia punctilobula	eastern hayscented fern	U		1	1	Forb/herb
Dichanthelium depauperatum	starved panicgrass	U		1	1	Graminoid
Diphasiastrum digitatum	clubmoss	U		1	1	
Dryopteris intermedia	intermediate woodfern	U		1	1	Forb/herb
Epigaea repens	trailing arbutus	U		1	1	Subshrub, Shrub
Epipactis helleborine	broadleaf helleborine	U		1	1	Forb/herb
Fagus grandifolia	American beech	U		1	1	Tree
Fragaria virginiana	Virginia strawberry	U		1	1	Forb/herb
Gaultheria procumbens	eastern teaberry	U		1	1	Subshrub, Shrub
Goodyera pubescens	downy rattlesnake plantain	U		1	1	Forb/herb
Goodyera tessellata	rattlesnake plantain	U		1	1	Forb/herb
Goodyera (cf) repens	dwarf rattlesnake plantain	U		1	1	Forb/herb
Ilex verticillata	common winterberry	U		1	1	Tree, Shrub
Juniperus communis	common juniper	U		1	1	Tree, Shrub
Kalmia angustifolia	sheep laurel	U		1	2	Shrub
Lonicera morrowii	Morrow's honeysuckle	U		1	1	Shrub
Luzula multiflora	common woodrush	U		1	1	Graminoid
Lycopodium annotinum	stiff clubmoss	U		1	1	Subshrub, Shrub
Lycopodium clavatum	running clubmoss	U		1	1	Subshrub, Shrub
Lycopodium hickeyi	Pennsylvania clubmoss	U		1	1	Subshrub, Forb/herb
Lycopus uniflorus	northern bugleweed	U		1	1	Forb/herb
Maianthemum canadense	Canada mayflower	U		3	2	Forb/herb
Malus pumila	paradise apple	U		1	1	Tree
Mentha arvensis	wild mint	U		1	1	Forb/herb
Mitchella repens	partridgeberry	U		2	1	Subshrub, Shrub, Forb/herb
Monotropa uniflora	Indianpipe	U		1	1	Forb/herb
Nemopanthus mucronatus	catberry	U		1	1	Tree, Shrub
Onoclea sensibilis	sensitive fern	U		1	1	Forb/herb
Osmunda claytoniana	interrupted fern	U		1	1	Forb/herb
Oxalis dilleni	oxalis	U		1	1	herb
Phegopteris hexagonoptera	broad beechfern	U		1	1	Forb/herb
Pinus strobus	eastern white pine	U		2	3	Tree
Pinus sylvestris	Scots pine	U		1	2	Tree
Populus grandidentata	bigtooth aspen	U		1	1	Tree
Populus tremuloides	quaking aspen	U		1	1	Tree
Potentilla canadensis	dwarf cinquefoil	U		1	1	Forb/herb
Prenanthes trifoliolata	gall of the earth	U		1	1	Forb/herb
Prunus serotina	black cherry	U		2	1	Tree, Shrub
Prunus virginiana	chokecherry	U		2	1	Tree, Shrub
Pteridium aquilinum var. latiusculum	western brackenfern	U		1	1	Forb/herb
Pyrola elliptica	waxflower shinleaf	U		1	1	Subshrub, Shrub
Quercus rubra	northern red oak	U		2	1	Tree
Rhamnus frangula	shining buckthorn	U		1	1	Shrub
Rhododendron periclymenoides	pink azalea	U		1	1	Shrub
Rubus flagellaris	northern dewberry	U		2	2	Shrub
Rubus idaeus	American red raspberry	U		1	1	Shrub
Schizachyrium scoparium	little bluestem	U		1	1	Graminoid
Smilax herbacea	smooth carrionflower	U		1	1	Vine, Forb/herb

<i>Spiraea alba</i> var. <i>latifolia</i>	white meadowsweet	U	1	1	Shrub
<i>Thelypteris noveboracensis</i>	New York fern	U	1	1	Forb/herb
<i>Thelypteris palustris</i> var. <i>pubescens</i>	eastern marsh fern	U	1	1	Forb/herb
<i>Trientalis borealis</i>	starflower	U	3	1	Forb/herb
<i>Tsuga canadensis</i>	eastern hemlock	U	1	1	Tree
<i>Uvularia sessilifolia</i>	sessileleaf bellwort	U	2	1	Forb/herb
<i>Vaccinium angustifolium</i>	lowbush blueberry	U	2	1	Subshrub, Shrub
<i>Vaccinium corymbosum</i>	highbush blueberry	U	1	1	Shrub
<i>Viburnum dentatum</i> var. <i>lucidum</i>	southern arrowwood	U	1	1	Tree, Shrub
<i>Viburnum nudum</i> var. <i>cassinoides</i>	withe-rod	U	2	1	Tree, Shrub

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Birch Hill WMA

WP ST-2&3

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>
<i>Pinus strobus</i>	eastern white pine	C	3	3	Tree
<i>Acer rubrum</i>	red maple	U	2	1	Tree
<i>Betula alleghaniensis</i>	yellow birch	U	1	1	Tree
<i>Carex debilis</i> var. <i>rudgei</i>	white edge sedge	U	1	1	Graminoid
<i>Coptis trifolia</i> ssp. <i>groenlandica</i>	goldthread	U	1	1	Subshrub
<i>Corylus cornuta</i>	beaked hazelnut	U	1	1	Tree, Shrub
<i>Dennstaedtia punctilobula</i>	eastern hayscented fern	U	2	3	Forb/herb
<i>Dryopteris intermedia</i>	intermediate woodfern	U	1	1	Forb/herb
<i>Epigaea repens</i>	trailing arbutus	U	1	1	Subshrub, Shrub
<i>Fagus grandifolia</i>	American beech	U	2	1	Tree
<i>Gaultheria procumbens</i>	eastern teaberry	U	2	2	Subshrub, Shrub
<i>Lycopodium clavatum</i>	running clubmoss	U	2	2	Subshrub, Shrub
<i>Lycopodium hickeyi</i>	Pennsylvania clubmoss	U	2	1	Subshrub, Forb/herb
<i>Lycopodium obscurum</i>	rare clubmoss	U	2	1	Subshrub, Shrub
<i>Lyonia ligustrina</i>	maleberry	U	1	1	Shrub
<i>Maianthemum canadense</i>	Canada mayflower	U	3	2	Forb/herb
<i>Mitchella repens</i>	partridgeberry	U	2	2	Subshrub, Shrub, Forb/herb
<i>Osmunda claytoniana</i>	interrupted fern	U	1	1	Forb/herb
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern	U	1	1	Forb/herb
<i>Pinus strobus</i>	eastern white pine	U	2	2	Tree
<i>Prenanthes trifoliolata</i>	gall of the earth	U	1	1	Forb/herb
<i>Prunus serotina</i>	black cherry	U	1	1	Tree, Shrub
<i>Pyrola elliptica</i>	waxflower shinleaf	U	1	1	Subshrub, Shrub
<i>Quercus alba</i>	white oak	U	1	1	Tree
<i>Quercus rubra</i>	northern red oak	U	1	1	Tree
<i>Rhamnus frangula</i>	shining buckthorn	U	1	1	Shrub
<i>Rubus flagellaris</i>	northern dewberry	U	2	1	Shrub
<i>Thelypteris noveboracensis</i>	New York fern	U	1	1	Forb/herb
<i>Trientalis borealis</i>	starflower	U	2	1	Forb/herb
<i>Tsuga canadensis</i>	eastern hemlock	U	2	1	Tree
<i>Vaccinium angustifolium</i>	lowbush blueberry	U	3	2	Subshrub, Shrub
<i>Vaccinium myrtilloides</i>	velvetleaf huckleberry	U	1	1	Subshrub, Shrub
<i>Viburnum nudum</i> var. <i>cassinoides</i>	withe-rod	U	2	1	Tree, Shrub

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Birch Hill WMA

WP ST-4 &5

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>
Acer rubrum	red maple	C	1	1	Tree
Pinus resinosa	red pine	C	1	1	Tree
Pinus strobus	eastern white pine	C	3	3	Tree
Prunus serotina	black cherry	C	1	1	Tree, Shrub
Quercus rubra	northern red oak	C	1	2	Tree
Tsuga canadensis	eastern hemlock	C	1	1	Tree
Acer rubrum	red maple	U	2	1	Tree
Acer saccharum	sugar maple	U	1	1	Tree, Shrub
Achillea millefolium	common yarrow	U	1	1	Forb/herb
Aralia nudicaulis	wild sarsaparilla	U	1	1	Subshrub, Shrub, Forb/herb
Aronia melanocarpa	black chokeberry	U	1	1	Shrub
Aronia x prunifolia	purple chokeberry	U	1	1	Shrub
Asclepias syriaca	common milkweed	U	1	1	Forb/herb
Berberis thunbergii	Japanese barberry	U	1	1	Shrub
Betula alleghaniensis	yellow birch	U	1	1	Tree
Brachyelytrum septentrionale	northern shorthusk	U	1	1	Graminoid
Carex debilis var. rudgei	white edge sedge	U	1	1	Graminoid
Carex swanii	Swan's sedge	U	1	1	Graminoid
Clintonia borealis	bluebead	U	1	1	Forb/herb
Coptis trifolia ssp. groenlandica	goldthread	U	1	1	Subshrub
Cornus canadensis	bunchberry dogwood	U	2	2	Subshrub, Shrub, Forb/herb
Corylus cornuta	beaked hazelnut	U	2	1	Tree, Shrub
Cypripedium acaule	moccasin flower	U	1	1	Forb/herb
Dalibarda repens	robin runaway	U	1	1	Forb/herb
Danthonia compressa	flattened oatgrass	U	1	1	Graminoid
Dennstaedtia punctilobula	eastern hayscented fern	U	1	2	Forb/herb
Diervilla lonicera	northern bush honeysuckle	U	1	1	Shrub
Diphasiastrum digitatum	clubmoss	U	1	1	
Dryopteris intermedia	intermediate woodfern	U	1	1	Forb/herb
Epigaea repens	trailing arbutus	U	1	1	Subshrub, Shrub
Fragaria virginiana	Virginia strawberry	U	1	1	Forb/herb
Galium triflorum	fragrant bedstraw	U	1	1	Forb/herb
Gaultheria procumbens	eastern teaberry	U	2	2	Subshrub, Shrub
Hamamelis virginiana	American witchhazel	U	1	1	Tree, Shrub
Ilex verticillata	common winterberry	U	1	1	Tree, Shrub
Kalmia angustifolia	sheep laurel	U	1	1	Shrub
Lactuca canadensis	Canada lettuce	U	1	1	Forb/herb
Lycopodium clavatum	running clubmoss	U	1	1	Subshrub, Shrub
Lycopodium hickeyi	Pennsylvania clubmoss	U	2	1	Subshrub, Forb/herb
Lycopodium obscurum	rare clubmoss	U	2	1	Subshrub, Shrub
Maianthemum canadense	Canada mayflower	U	3	1	Forb/herb
Medeola virginiana	Indian cucumber	U	1	1	Forb/herb
Mitchella repens	partridgeberry	U	2	2	Subshrub, Shrub, Forb/herb
Nemopanthus mucronatus	catberry	U	1	1	Tree, Shrub
Osmunda cinnamomea	cinnamon fern	U	1	3	Forb/herb
Osmunda claytoniana	interrupted fern	U	1	1	Forb/herb
Osmunda regalis var. spectabilis	royal fern	U	1	1	Forb/herb
Picea rubens	red spruce	U	1	1	Tree
Pinus strobus	eastern white pine	U	2	1	Tree
Polystichum acrostichoides	Christmas fern	U	1	1	Forb/herb
Populus grandidentata	bigtooth aspen	U	1	1	Tree
Potentilla simplex	common cinquefoil	U	1	1	Forb/herb
Prunus serotina	black cherry	U	1	1	Tree, Shrub
Prunus virginiana	chokecherry	U	1	1	Tree, Shrub
Pteridium aquilinum var. latiusculum	western brackenfern	U	2	2	Forb/herb
Quercus alba	white oak	U	1	1	Tree
Quercus rubra	northern red oak	U	1	1	Tree
Rhamnus frangula	shining buckthorn	U	1	1	Shrub
Rubus flagellaris	northern dewberry	U	1	1	Shrub
Rubus idaeus	American red raspberry	U	1	1	Shrub
Smilax herbacea	smooth carrionflower	U	1	1	Vine, Forb/herb
Solidago canadensis var. scabra	Canada goldenrod	U	1	1	Forb/herb
Solidago gigantea	giant goldenrod	U	1	1	Forb/herb
Solidago rugosa	wrinkleleaf goldenrod	U	1	1	Forb/herb
Sorbus aucuparia	European mountain ash	U	1	1	Tree, Shrub
Spiraea alba var. latifolia	white meadowsweet	U	1	1	Shrub
Thelypteris noveboracensis	New York fern	U	1	1	Forb/herb
Trientalis borealis	starflower	U	2	1	Forb/herb
Trillium undulatum	painted trillium	U	1	1	Forb/herb
Tsuga canadensis	eastern hemlock	U	2	1	Tree
Uvularia sessilifolia	sessileleaf bellwort	U	2	1	Forb/herb
Vaccinium angustifolium	lowbush blueberry	U	3	2	Subshrub, Shrub

Vaccinium corymbosum	highbush blueberry	U	2	1	Shrub
Viburnum acerifolium	mapleleaf viburnum	U	1	1	Shrub
Viburnum acerifolium	mapleleaf viburnum	U	1	1	Shrub
Viburnum dentatum var. lucidum	southern arrowwood	U	1	1	Tree, Shrub
Viburnum nudum var. cassinoides	withe-rod	U	2	1	Tree, Shrub
Viola sagittata	arrowleaf violet	U	1	1	Forb/herb

¹C = Canopy (Overstory), U = Understory

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³1 = Sparse, 2 = Moderate, 3 = Dense

Birch Hill WMA

Wetland and Filter Strip

<i>Latin Name</i>	<i>Common Name</i>	<i>Stratum</i> ¹	<i>Freq.</i> ²	<i>Cover</i> ³	<i>Growth Form</i>
<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	U			Tree, Shrub
<i>Arisaema triphyllum</i> ssp. <i>stewardsonii</i>	Jack in the pulpit	U			Forb/herb
<i>Aster acuminatus</i>	wood aster	U			
<i>Aster puniceus</i>	aster	U			
<i>Aster umbellatus</i>	flat-topped aster	U			
<i>Calystegia sepium</i>	hedge false bindweed	U			Vine, Subshrub, Forb/herb
<i>Carex gynandra</i>	nodding sedge	U			Graminoid
<i>Carex lurida</i>	shallow sedge	U			Graminoid
<i>Carex stricta</i>	upright sedge	U			Graminoid
<i>Carex trisperma</i>	threeseeded sedge	U			Graminoid
<i>Carex vulpinoidea</i>	fox sedge	U			Graminoid
<i>Chelone glabra</i>	white turtlehead	U			Forb/herb
<i>Clintonia borealis</i>	bluebead	U			Forb/herb
<i>Deparia acrostichoides</i>	silver false spleenwort	U			Forb/herb
<i>Glyceria canadensis</i>	rattlesnake mannagrass	U			Graminoid
<i>Glyceria striata</i>	fowl mannagrass	U			Graminoid
<i>Hemerocallis fulva</i>	orange daylily	U			Forb/herb
<i>Hydrocotyle americana</i>	American marshpennywort	U			Forb/herb
<i>Ilex verticillata</i>	common winterberry	U			Tree, Shrub
<i>Iris versicolor</i>	harlequin blueflag	U			Forb/herb
<i>Lycopus uniflorus</i>	northern bugleweed	U			Forb/herb
<i>Lysimachia terrestris</i>	earth loosestrife	U			Forb/herb
<i>Onoclea sensibilis</i>	sensitive fern	U			Forb/herb
<i>Osmunda claytoniana</i>	interrupted fern	U			Forb/herb
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern	U			Forb/herb
<i>Phleum pratense</i>	timothy	U			Graminoid
<i>Polygonum sagittatum</i>	arrowleaf tearthumb	U			Vine, Subshrub, Forb/herb
<i>Rubus pubescens</i>	dwarf red blackberry	U			Subshrub, Shrub, Forb/herb
<i>Scutellaria galericulata</i>	marsh skullcap	U			Forb/herb
<i>Solidago gigantea</i>	giant goldenrod	U			Forb/herb
<i>Sorbus aucuparia</i>	European mountain ash	U			Tree, Shrub
<i>Spiraea alba</i> var. <i>latifolia</i>	white meadowsweet	U			Shrub
<i>Thalictrum pubescens</i>	king of the meadow	U			Forb/herb
<i>Thelypteris palustris</i> var. <i>pubescens</i>	eastern marsh fern	U			Forb/herb
<i>Thelypteris simulata</i>	bog fern	U			Forb/herb
<i>Uvularia sessilifolia</i>	sessileleaf bellwort	U			Forb/herb
<i>Viburnum dentatum</i> var. <i>lucidum</i>	southern arrowwood	U			Tree, Shrub
<i>Viola cucullata</i>	marsh blue violet	U			Forb/herb

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