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A Vegetation Inventory of

POTAWATOMI WOODS

Will County, Illinois

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INTRODUCTION

PROJECT SITE LOCATION AND PURPOSE

Potawatomi Woods is a ±117-acre site located west of New Lenox, Illinois. As depicted on EXHIBIT A – PROJECT SITE LOCATION, the property lies north of Illinois Route 30, east of Gougar Road, and south of Francis Road. And, as depicted on EXHIBIT B – USGS TOPOGRAPHY MAP, the site lies north of the CRIPJ Railroad, west of Interstate 80, and includes acreage north and south of Hickory Creek (N1/3 of Section 17, T35N, R11E), New Lenox Township, Will County, Illinois.

Potawatomi Woods is owned and managed by the Forest Preserve District of Will County (District), and to date no programming or active restoration management activities have occurred at the site. The purpose of this report is to present the results of a vegetation inventory conducted during the growing season of 2001. The information presented herein can be utilized by the District staff for assistance in making sound decisions as to ecological restoration practices and proposed programming features at the site. Accompanying this document is a 1": 200' scale aerial photograph of the project site and immediate surroundings (photo taken in March 1997). A Mylar overlay of the project site is attached with the aerial that includes base information such as boundaries, plant communities, and other landscape features.

METHODOLOGY

BACKGROUND SITE INFORMATION

Various background information was reviewed from the onset of the project, some of which was provided by the District staff; these data included:

- the USGS Topography Map of the project area;
- an aerial photograph of the project area;
- Illinois Natural Areas Inventory data of the site;
- a "Preservation Plan" of the site; and,
- a portion of a "Wetland Delineation" report of the site.

As the project proceeded during the spring, summer, and fall of 2001, all of these data were reviewed and their pertinent information incorporated into this report.

VEGETATION INVENTORY AND ASSESSMENT

Several site visits were conducted during the 2001 growing season in order to inventory the vegetation and document the various plant communities and habitats

across the property. From this field work and site observations the following inventory assessments were conducted.

Species Relative Abundance

A relative abundance number from 1 to 4 was given to each plant species recorded in the inventory. A description of each number is as follows.

RELATIVE ABUNDANCE NUMBER	DESCRIPTION
1	rare
2	uncommon to occasional
3	common
4	very common to abundant

Species assigned a "1" are *rare* at the site, indicating that only one individual or a few small populations were noted during the field investigations. Species assigned a "2" are *uncommon to occasional*, in that they were often observed as few to several scattered populations, generally localized in one plant community or habitat. Species assigned a "3" are *common* across the property and were likely noted as a characteristic member of the flora at the site. Species assigned a "4" are *very common to abundant*; these plants were found across most of the site, and/or were common associates of several plant communities.

Special Status Species

The plant inventory also indicates "special status species." These plants are either federal- or state-endangered or threatened species; or, they are species that have coefficients of conservatism values of 8, 9, or 10. As described below (see Floristic Quality Assessment), plants that have been assigned these values are almost always found in some kind of intact natural area or relatively undisturbed plant community—and since these habitats are scarce in our modern landscapes, the plants that inhabit them are equally scarce.

Species of Management Concern

The plant inventory also indicates any "species of management concern." These plants include known weeds, usually adventive to the region, that are or could be a serious threat to habitat stability and management at the site.

Floristic Quality Assessment

Although there are many ways to assess landscapes in order to understand their composition in terms of ecological restoration, the approach presented herein emphasizes vegetation development and floristic quality assessment (FQA) methodology. A useful method for determining the floristic quality of an area is through an analysis of the conservatism and diversity of species appearing in a plant

inventory. The concept of "conservatism" refers to the fundamental character of native plant species to display varying degrees of tolerance to disturbance, as well as varying degrees of fidelity to specific habitat integrity. As a result, each native species can be assigned a *coefficient of conservatism* (C value) ranging from 0 to 10, "weedy to conservative," reflecting this disposition within a defined geographic region.

In order to determine the extent to which a site contains high quality remnant habitats (i.e., those natural areas with intact presettlement structure, composition, and processes), an inventory of the area is required. From the inventory, the FQA generates 2 fundamental products. The **Mean C** is the average coefficient of conservatism for a site; and, the **floristic quality index (FQI)** is a statistic derived by multiplying Mean C by the square root of the number of species inventoried.

In general, site inventories with Mean C and FQI values less than 2.8 and 20, respectively, as surveyed during the growing season are degraded or derelict plant communities, or are very small habitat remnants. Site inventories with Mean C values approaching 3.2 and FQI values in the middle twenties through middle thirties suffer from various kinds of disturbance, but have potential for habitat restoration and recovery—and, these areas generally have a more diverse component of conservative species than could ever be recreated. When site inventories yield Mean C values ∃3.5 and have FQI values in the upper thirties or higher, one can be confident there is sufficient native character present for the area to be at least regionally noteworthy—such landscapes are irreplaceable in terms of their unique composition of remnant biodiversity. Site inventories with Mean C and FQI values greater than 4.0 and 50, respectively, are unquestionably rare, highly significant natural areas of statewide importance.

As land management and time cause changes to take place, Mean C and FQI values will reflect the extent to which conservative species are being recruited and the floristic quality is improving (or vice versa). In this way, FQA methodology can be used to monitor and guide restoration management decisions.

PLANT COMMUNITY MAPPING

With the aid of the USGS topography map and an aerial photograph of Potawatomi Woods, the various plant communities and habitats were documented as to their locations across the property and their vegetation composition.

RESULTS AND DISCUSSION

BACKGROUND SITE INFORMATION

As can be seen on the USGS Topography Map (see Exhibit B), the highest elevation on the property is a ridgeline located in the east-central portion of Potawatomi Woods. This area has an elevation of ∀650 feet, and from here, most of the property slopes to the south and west towards Hickory Creek, which is the lowest elevation of

the site at ∀600 feet. The northeastern portion of the site, north of the ridgeline, is generally flat and drains into a ravine system to the north.

From the aerial photograph submitted along with this report, it is apparent that most of Potawatomi Woods is a forested landscape. One pipeline right-of-way bisects the central portion of the property, and another is located along the eastern boundary adjacent to Interstate 80. Hickory Creek flows east-to-west across the southern end of the site, north of the CRIPJ Railroad. A tributary to Hickory Creek enters the western portion of the site, meandering in a southwest direction near a non-forested wetland habitat before entering the creek. More discussion on the plant communities is presented later in this report.

The adjacent land uses can be seen from the aerial photograph as well. Most striking, perhaps, is the extent of the woodland landscape that lies to the north of the property boundary on both private and public land holdings. A large commercial trucking business is located along Gougar Road, immediately southwest of Potawatomi Woods. Lastly, a combination of institutional, commercial, and residential landscapes lie to the south and east.

The District provided the following background site information for use in this study:

- Illinois Natural Areas Inventory (INAI) data sheets of "Hickory Creek Sedge Meadow;"
- a "Preservation Plan for Hickory Creek;" and,
- a portion of a "Wetland Delineation Report for the Hickory Road Extension."

This information is included within a pocket folder located at the back of the report. To summarize the relevant plant information on the INAI data sheets, the property contains a ∀3.1-acre grade B sedge meadow, ∀34 acres of grade C wet-mesic floodplain forest, and a grade C high-gradient creek. Tussock sedge was listed as the characteristic plant species in the sedge meadow; and, bur oak, silver maple, and hawthorns were listed as characteristic floodplain forest species. To my knowledge, this information was recorded by the State during the middle 1970s.

To summarize the relevant plant information in the preservation plan (dated 1996), the site contains a "native" forest along the main channel of Hickory Creek. Natural communities include mesic floodplain forest, wet-mesic floodplain forest, wet floodplain forest, mesic upland forest, wet-mesic upland forest, sedge meadow, calcareous fen, forested seep, perennial stream-deep pool, and perennial stream-gravel/cobble bar. The site contains "regionally rare" plant species such as common waterweed, Ohio buckeye, and bladdernut. As will be discussed below under Plant Community Mapping, some of the plant communities listed in the preservation plan are not included in my interpretation of the site. In addition, I did not record Ohio buckeye on the property.

Lastly, the information provided from the wetland delineation report includes FQA summaries of 6 regulatory wetland habitats and adjacent upland woods identified on the property (all of which are located in the southern end of the site near Hickory

Creek). These inventories are dated June and July of 1998. Several plants that are listed in the FQA data were not recorded during my assessment of the property. These include Ohio buckeye, beech, early wild rose, tall swamp marigold, marsh spike rush, purple loosestrife, dotted hawthorn, common mallow, smooth buckthorn, cat brier, cream violet, Norway cinquefoil, hairy mountain mint, bristly aster, fen willow herb, winged loosestrife, cowbane, arrow-leaved tear-thumb, prickly wild gooseberry, summer grape, and marsh skullcap.

VEGETATION INVENTORY AND ASSESSMENT

The vegetation across the entire 117-acre site was inventoried during several site visits to Potawatomi Woods. The dates of the field work were April 13th, May 19th, June 16th and 23rd, August 6th, September 13th, and November 23rd, 2001. During each visit, the plants encountered via systematic meandering across the site were recorded. A total of 374 taxa were recorded; a summary of these inventoried species is presented below.

Species Relative Abundance

As described above, a relative abundance number from 1 to 4 was assigned to each of the 374 species recorded from the site. A list of these species and their relative abundance values is presented in Appendix I. The assignment of these values is somewhat subjective, since a species "presence" changes during the growing season, and one practitioner's impression of relative abundance is not necessarily the same as another's. Nevertheless, this is still a useful datum that provides a level of detail not found in a simple plant list. The following is presented as an example of my interpretation of relative abundance as used in this inventory.

- < Violet cress (*Iodanthus pinnatifidus*) was assigned a "1" because only 3 plants were recorded (from near Hickory Creek) on the entire property.
- < Burdick's leek (*Allium tricoccum* var. *burdickii*) was assigned a "2" because it was seen occasionally in the mesic woodland in the spring and summer months; and, great Angelica (*Angelica atropurpurea*) was assigned a "2" because it is common, though restricted, to one local habitat on the site.
- < Nannyberry (*Viburnum lentago*) was assigned a "3" because it was generally common across many portions of the site; and, wingstem (*Actinomeris alternifolia*) was assigned a "3" because it is very common, in particular along the creek in late summer and fall.
- < Poison Ivy (*Rhus radicans*) was assigned a "4" because it was common to abundant across many areas of the property throughout the growing season.

In my opinion, if other field botanists were to assess the site and it's plant species for their relative abundance, there would be a general concurrence with the assigned values presented herein. Species given a value of either "2" or "3" (which comprise the majority of plants from the site) are most likely to be inconsistent in terms of their assigned value—in that, what is one practitioner's "2" is another's "3," and vice versa.

Special Status Species

None of the plants recorded in this inventory are federal- or state-listed species. Of the 293 native species inventoried, 23 have been assigned C values of 8, 9, or 10 (using the Chicago Region FQA Database). An alphabetical list of these rare plants is presented below, and includes the family to which it belongs and a brief comment as to its sighting at Potawatomi Woods.

Asimina triloba – Papaw (Annonaceae)
A few young trees were seen in floodplain woods near Hickory Creek.
Aster shortii – Short's Aster (Compositae)
A few plants were noted in mesic woods in the northern portion of the site.
Blephilia hirsuta – Wood Mint (Labiatae)
Several plants were seen scattered in woodlands throughout the property.
Carex frankii – Bristly Cattail Sedge (Cyperaceae)
Two plants were noted in wet woods near the creek.
Carex interior; C. suberecta – Prairie Star Sedge; Wedge-fruited Oval Sedge (Cyperaceae)
These rare sedges were growing with other native plants in the remnant sedge meadow.
Cercis canadensis – Red Bud (Leguminosae)
A few trees were seen in the woods along Hickory Creek.
Chelone glabra – Turtlehead (Scrophulariaceae)
Seen scattered in the sedge meadow.
Cirsium muticum – Swamp Thistle (Compositae)
Several plants were growing in the sedge meadow with other rare, native species.
Floerkea proserpinacoides – False Mermaid (Limnanthaceae)
Seen scattered in the woods in spring.
Fraxinus nigra – Black Ash (Oleaceae)
A few individuals were seen in wet woods near Hickory Creek.
Galium asprellum – Rough Bedstraw (Rubiaceae)
Recorded from the remnant sedge meadow.
Gymnocladus dioica – Kentucky Coffee Tree (Leguminosae)
Two individuals noted from wet woods near Hickory Creek.
Hydrophyllum appendiculatum – Great Waterleaf (Hydrophyllaceae)
A few plants noted in mesic woods in the northeastern portion of the site.
Iodanthus pinnatifidus – Violet Cress (Cruciferae)
Three plants noted from the bank of Hickory Creek.
Isopyrum biternatum – False Rue Anemone (Ranunculaceae)
Occasionally seen across the woodland areas of the property.
Napaea dioica – Glade Mallow (Malvaceae)
Five individual plants were seen along the south side of Hickory Creek near the railroad.
Onoclea sensibilis – Sensitive Fern (Polypodiaceae)
Restricted to the remnant sedge meadow where a few small populations were growing.

Pedicularis lanceolata – Fen Betony (Scrophulariaceae)
A small population noted from the sedge meadow.
Platanus occidentalis – Sycamore (Platanaceae)
One tree noted from wet woods in the western portion of the site.
Poa palustris – Marsh Blue Grass (Gramineae)
Occasional in the sedge meadow, and seed in the pipeline right-of-way south of the creek.
Rumex orbiculatus – Great Water Dock (Polygonaceae)
Scattered throughout the sedge meadow.
Symplocarpus foetidus – Skunk Cabbage (Araceae)
Common in the sedge meadow and wet woods in the western portion of the site.

Species of Management Concern

Based upon my site observations, the following 14 plant species are listed as current or potential threats to habitat management at Potawatomi Woods.

> *Alliaria petiolata* (garlic mustard), *Berberis thunbergii* (Japanese barberry), *Dipsacus laciniatus, D. sylvestris* (teasel), *Hesperis matronalis* (dame's rocket), *Ligustrum vulgare* (common privet), *Lonicera maackii, L. tatarica, L.* x *Bella* (Eurasian fly honeysuckle shrubs), *Phalaris arundinacea* (reed canary grass), *Phragmites australis* (common reed), *Rhamnus cathartica* (common buckthorn), *Rosa multiflora* (multiflora rose), and *Viburnum opulus* (European highbush cranberry).

The most serious threats to habitat stability are the pervasive exotic shrubs that have formed dense thickets throughout many portions of the woods. In addition, reed canary grass is a serious threat in the sedge meadow. Garlic mustard is found across most portions of the property; yet, to date it has not formed dense, ubiquitous stands as in other woodlands of similar structure. The teasel is restricted to the pipeline rights-of-way and waste ground, and common reed was noted in only a couple of small, disturbed areas. Other weeds not listed above (e.g., burdock, crown vetch) are restricted to a few weedy, disturbed spots on the site and do not present any special, imminent management issues.

Floristic Quality Assessment

The results of the plant inventory and associated FQA data are presented in Appendix III. The table below summarizes the number of native species (NS), along with the percent that these native plants comprise of all species recorded (%TS); the native Mean C; and, the native FQI.

POTAWATOMI WOODS FQA DATA SUMMARY		
NS (%TS)	Mean C	FQI

293 (78%)	4.2	72

Since these data are based upon several site visits during the 2001 growing season, it is likely that at least ¾ of the vegetation across the property is included in this assessment and that additional plant inventories would not yield significant changes in FQA results. Overall, these results are high values and reflect upon the presence of remnant, high quality habitat found on the property. Relatively few areas across the Chicago region have Mean C and FQI values this high, and Potawatomi Woods is undoubtedly one of the most significant landscapes within all of Will County.

PLANT COMMUNITY MAPPING

As determined from the field work during the 2001 growing season, 6 plant community types occur across Potawatomi Woods. Their locations on the property, as well as other site features, are depicted on Exhibit C, which is a Mylar overlay that accompanies the aerial photograph.

The plant community types are discussed below, and are presented in an order that generally follows the classification of forest preserve lands within Will County. Each area is described as to characteristic plant species, location on the property, and other relevant information as to existing conditions and/or land management. Photographs taken during the site visits are included at the back of the report.

Mesic Upland Forest

This community is located on slightly rolling topography across the northern portions of the site. Characteristic trees include sugar maple, bitternut hickory, downy hawthorn, American and green ash, hop hornbeam, wild black cherry, white and red oak, American linden, and American elm. Some areas in the eastern portion of these woods are relatively clear of underbrush. However, in many areas these woods are degraded from thickets of shrubs that have developed, comprised primarily of Eurasian honeysuckle shrubs, common buckthorn, and wild gooseberry. In the most degraded portions of these sterile areas surface erosion rills have formed.

Extensive clearing of the underbrush and portions of the understory/canopy layer is necessary throughout these woodlands in order to allow for more light to reach the forest floor. Lastly, although some spring flora has persisted and is found scattered in these woods (e.g., toothwort, sharp-lobed hepatica), the cover and diversity of native herbaceous species is not as impressive as other woodland habitats located nearby; this condition would no doubt improve with restoration management.

Wet-Mesic Upland Forest

This community is located along the lower elevations of the Mesic Upland Forest described above, and is a transition between it and the Mesic Floodplain Forest located along Hickory Creek. Overall, these woods are disturbed and weedy, with many dead or dying American elm trees noted during my site visits. In addition,

other common woody plants to this habitat include box elder, red and green ash, black walnut, Virginia creeper, bur oak, poison ivy, and wild gooseberry. Some of the more common herbaceous species include wild onion, wild ginger, honewort, white snakeroot, annual bedstraw, moneywort, clearweed, clustered black snakeroot, and common blue violet. Similar to the Mesic Upland Woods, this habitat is in need of clearing and burn management.

Mesic Floodplain Forest

This community comprises all of the woodland habitat along Hickory Creek. Characteristic plants include box elder, silver maple, wingstem, garlic mustard, wild ginger, side-flowering aster, hackberry, downy hawthorn, honewort, white snakeroot, wood avens, creeping Charlie, orange jewelweed, wood nettle, moneywort, Virginia creeper, clearweed, bur oak, common buckthorn, poison ivy, wild gooseberry, clustered black snakeroot, American elm, common blue violet, and riverbank grape. Near the banks of Hickory Creek other plants include Pennsylvania bitter cress, poison hemlock, Virginia wild rye, sawtooth sunflower, reed canary grass, wild golden glow, peach-leaved willow, and stinging nettle.

Some wet depressions occur along the creek in these woods. One such area is located at the west end of the site near Gougar Road, and contains hop sedge, wood reed, fowl manna grass, blue flag, white grass, skunk cabbage, and other native vegetation. Other such depressions may represent old oxbow meanders of the creek, or perhaps abandoned sluices. Lastly, several trees along the creek have been damaged from beaver activity.

Sedge Meadow

A remnant, high quality sedge meadow is located in the western portion of Potawatomi Woods, and is the same area identified in the INAI survey. The northern end extends north of the property line. More than any other area on the site, this wetland has many conservative species such as sweet flag, great Angelica, and marsh marigold—just to name a few—in addition to several of the "special status species" listed above. The characteristic vegetation includes blue joint grass, common fox sedge, tussock sedge, blue-fruited dogwood, spotted Joe pye weed, fowl manna grass, Dudley's rush, reed canary grass, pinkweed, heart-leaved willow, skunk cabbage, and germander.

This wetland is being encroached upon on all sides by woody vegetation and is in need of burn management. Reed canary grass has become established within this area as well and threatens to spread across the wetland unless actively managed.

Low-Gradient Creek

As depicted on the exhibits, Hickory Creek flows east-to-west across the southern end of the property. In general, the creek has a rocky bottom and can be forded in late summer when at some locations the water depth is less than 2 feet. There are extensive drifts of slender waterweed in the creek. Other aquatic plants recorded from the channel include water willow, yellow pond weed, and long-leaved and sago pondweeds.

A tributary to Hickory Creek enters Potawatomi Woods from the north, just west of the sedge meadow. This meandering stream drains much of the woodland landscape immediately to the north and east of the site (see aerial photograph). On the site, the banks of this stream have become eroded and are deeply incised, likely do to upstream stormwater fluxes. Even in the summer month, a small amount of water was flowing through this channel to Hickory Creek.

Cultural Landscapes

Old-field habitat is restricted to the north/south pipeline right-of-way that bisects the property in the central portion of Potawatomi Woods. This area is mowed periodically for maintenance and is dominated by common Old World meadow grasses and forbs, as well as brambles and various native plants that thrive in the sunlight afforded by the clearing.

Another cultural landscape is disturbed waste ground located in the southeast corner of the property, north of the railroad right-of-way and near the I-80 bridge overpass. The area has been used for dumping miscellaneous debris, and as expected, is primarily composed of weeds such as crown vetch, Queen Anne's lace, cut-leaved teasel, and giant foxtail.

SUMMARY

The following is a summary my findings in this vegetation inventory of Potawatomi Woods.

1) A total of 374 plants were recorded over several site visits during the 2001 growing season—which amounted to a total of approximately 50 hours of botanizing.
2) Although no federal- or state-endangered and threatened species were seen, several remnant-dependent native plants were recorded and listed as "special status species."
3) A total of 14 species were identified as "species of management concern," due to their threat to habitat stability and management at the site.
4) The FQA results are very impressive and indicate that Potawatomi Woods is a unique area that deserves protection and management.
5) Although the site is primarily composed of forested plant communities, the sedge meadow wetland is perhaps the most significant remnant habitat on the property.

In conclusion, Potawatomi Woods is a unique land holding that has great potential for restoration management. Perhaps its greatest limitation is noise from Interstate 80, and site access. Lastly, the woods north and adjacent to the property should be included as part of land management, in particular those areas that directly affect the tributary stream and sedge meadow.

GENERAL REFERENCES

The following sources were referenced in completing the final draft of this document. Authors and/or titles for some of the background material provided by the District are incomplete.

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APPENDIX I

VEGETATION INVENTORY AND SPECIES RELATIVE ABUNDANCE

The plants listed on the following 8 pages represent the 374 species recorded from Potawatomi Woods between April and November of 2001. The list is arranged alphabetically by species, and includes the common name and relative abundance number assigned to each taxon. Species names in ALL CAPS are non-native.

The 23 species that are followed by a number—e.g., *Asimina triloba* (9)—are "special status species;" the number indicates their C value. The 14 species followed by an asterisk (*) are "species of management concern." See the narrative section of the report for more information. Nomenclature follows *Plants of the Chicago Region*, 1994.

RELATIVE ABUNDANCE	SPECIES NAME	COMMON NAME
3	*Acer negundo*	BOX ELDER
3	*Acer saccharinum*	SILVER MAPLE
2	*Acer saccharum*	SUGAR MAPLE
1	*Acorus calamus*	SWEET FLAG
2	*Actaea pachypoda*	WHITE BANEBERRY
3	*Actinomeris alternifolia*	WINGSTEM
2	*Agastache nepetoides*	YELLOW GIANT HYSSOP
3	*Agrimonia gryposepala*	TALL AGRIMONY
2	*Agrimonia pubescens*	SOFT AGRIMONY
2	*AGROPYRON REPENS*	QUACK GRASS
2	*AGROSTIS ALBA*	REDTOP
3	*ALLIARIA PETIOLATA* *	GARLIC MUSTARD
3	*Allium canadense*	WILD ONION
2	*Allium tricoccum burdickii*	BURDICK'S LEEK
1	*Ambrosia artemisiifolia elatior*	COMMON RAGWEED
2	*Ambrosia trifida*	GIANT RAGWEED
1	*Anemonella thalictroides*	RUE ANEMONE
2	*Angelica atropurpurea*	GREAT ANGELICA
2	*Apocynum cannabinum*	INDIAN HEMP
1	*Apocynum sibiricum*	PRAIRIE INDIAN HEMP
2	*Arabis laevigata*	SMOOTH BANK CRESS
2	*ARCTIUM MINUS*	COMMON BURDOCK
2	*Arisaema dracontium*	GREEN DRAGON
2	*Arisaema triphyllum*	JACK-IN-THE-PULPIT
1	*ARTEMISIA VULGARIS*	MUGWORT
4	*Asarum canadense*	WILD GINGER
2	*Asclepias incarnata*	SWAMP MILKWEED
2	*Asclepias syriaca*	COMMON MILKWEED
1	*Asimina triloba (9)*	PAPAW
1	*ASPARAGUS OFFICINALIS*	ASPARAGUS
3	*Aster lateriflorus*	SIDE-FLOWERING ASTER
2	*Aster novae-angliae*	NEW ENGLAND ASTER
2	*Aster ontarionis*	ONTARIO ASTER
1	*Aster pilosus*	HAIRY ASTER
1	*Aster puniceus firmus*	SHINING ASTER
3	*Aster sagittifolius drummondii*	DRUMMOND'S ASTER
1	*Aster shortii (8)*	SHORT'S ASTER
1	*ATRIPLEX PATULA*	COMMON ORACH
2	*BARBAREA VULGARIS*	YELLOW ROCKET
2	*BERBERIS THUNBERGII* *	JAPANESE BARBERRY
2	*Bidens connata*	PURPLE-STEMMED TICKSEED
2	*Bidens frondosa*	COMMON BEGGAR'S TICKS
2	*Bidens polylepis*	BUR MARIGOLD
2	*Blephilia hirsuta (8)*	WOOD MINT
2	*Boehmeria cylindrica*	FALSE NETTLE
1	*Brassica kaber*	CHARLOCK
1	*BRASSICA NIGRA*	BLACK MUSTARD
2	*BROMUS INERMIS*	HUNGARIAN BROME
1	*BROMUS JAPONICUS*	JAPANESE CHESS

[illegible]	[illegible]	[illegible]
2	*Calamagrostis canadensis*	BLUE JOINT GRASS
1	*Caltha palustris*	MARSH MARIGOLD
3	*Campanula americana*	TALL BELLFLOWER
2	*Cardamine bulbosa*	BULBOUS CRESS
2	*Cardamine douglassii*	PURPLE SPRING CRESS
2	*Cardamine pensylvanica*	PENNSYLVANIA BITTER CRESS
2	*Carex blanda*	COMMON WOOD SEDGE
1	*Carex cephalophora*	SHORT-HEADED BRACTED SEDGE
2	*Carex cristatella*	CRESTED OVAL SEDGE
1	*Carex davisii*	AWNED GRACEFUL SEDGE
1	*Carex emoryi*	RIVERBANK SEDGE
1	*Carex frankii (8)*	BRISTLY CATTAIL SEDGE
2	*Carex granularis*	PALE SEDGE
2	*Carex grayi*	COMMON BUR SEDGE
3	*Carex grisea*	WOOD GRAY SEDGE
2	*Carex hirtifolia*	HAIRY WOOD SEDGE
1	*Carex hystericina*	PORCUPINE SEDGE
1	*Carex interior (10)*	PRAIRIE STAR SEDGE
2	*Carex jamesii*	GRASS SEDGE
2	*Carex lupulina*	COMMON HOP SEDGE
2	*Carex molesta*	FIELD OVAL SEDGE
2	*Carex pellita*	BROAD-LEAVED WOOLLY SEDGE
2	*Carex pensylvanica*	COMMON OAK SEDGE
2	*Carex radiata*	STRAIGHT-STYLED WOOD SEDGE
1	*Carex rosea*	CURLY-STYLED WOOD SEDGE
1	*Carex sparganioides*	LOOSE-HEADED BRACTED SEDGE
2	*Carex stipata*	COMMON FOX SEDGE
2	*Carex stricta*	COMMON TUSSOCK SEDGE
1	*Carex suberecta (8)*	WEDGE-FRUITED OVAL SEDGE
2	*Carex tribuloides*	AWL-FRUITED OVAL SEDGE
2	*Carex trichocarpa*	HAIRY-FRUITED LAKE SEDGE
2	*Carex vulpinoidea*	BROWN FOX SEDGE
3	*Carya cordiformis*	BITTERNUT HICKORY
2	*Carya ovata*	SHAGBARK HICKORY
3	*CELASTRUS ORBICULATUS*	ORIENTAL BITTERSWEET
3	*Celtis occidentalis*	HACKBERRY
2	*CERASTIUM VULGATUM*	MOUSE-EAR CHICKWEED
2	*Ceratophyllum demersum*	HORNWORT
1	*Cercis canadensis (10)*	REDBUD
1	*Chelone glabra (8)*	TURTLEHEAD
1	*CHENOPODIUM ALBUM*	LAMB'S QUARTERS
1	*CHRYSANTHEMUM LEUCAN. PINN.*	OX-EYE DAISY
1	*CICHORIUM INTYBUS*	CHICORY
1	*Cicuta maculata*	WATER HEMLOCK
2	*Cinna arundinacea*	COMMON WOOD REED
2	*CIRSIUM ARVENSE*	FIELD THISTLE
2	*Cirsium discolor*	PASTURE THISTLE
1	*Cirsium muticum (8)*	SWAMP THISTLE
2	*CIRSIUM VULGARE*	BULL THISTLE

RELATIVE ABUNDANCE	SPECIES NAME	COMMON NAME
2	*Claytonia virginica*	SPRING BEAUTY
1	*CONIUM MACULATUM*	POISON HEMLOCK
2	*CONVOLVULUS ARVENSIS*	FIELD BINDWEED
2	*Convolvulus sepium*	HEDGE BINDWEED
2	*Cornus obliqua*	BLUE-FRUITED DOGWOOD
1	*CORONILLA VARIA*	CROWN VETCH
2	*Crataegus crus-galli*	COCKSPUR HAWTHORN
4	*Crataegus mollis*	DOWNY HAWTHORN
2	*Crataegus succulenta*	FLESHY HAWTHORN
4	*Cryptotaenia canadensis*	HONEWORT
2	*Cuscuta gronovii*	COMMON DODDER
2	*Cyperus esculentus*	FIELD NUT SEDGE
2	*Cyperus ferruginescens*	RUSTY NUT SEDGE
2	*DACTYLIS GLOMERATA*	ORCHARD GRASS
2	*DAUCUS CAROTA*	QUEEN ANNE'S LACE
2	*Dentaria laciniata*	TOOTHWORT
2	*DIANTHUS ARMERIA*	DEPTFORD PINK
1	*DIGITARIA SANGUINALIS*	HAIRY CRAB GRASS
3	*Dioscorea villosa*	WILD YAM
1	*DIPSACUS LACINIATUS* *	CUT-LEAVED TEASEL
1	*DIPSACUS SYLVESTRIS* *	COMMON TEASEL
2	*Dryopteris thelypteris pubescens*	MARSH SHIELD FERN
2	*DUCHESNEA INDICA*	INDIAN STRAWBERRY
1	*DYSSODIA PAPPOSA*	FETID MARIGOLD
2	*Echinochloa crusgalli*	BARNYARD GRASS
1	*Echinocystis lobata*	WILD CUCUMBER
3	*Eleocharis erythropoda*	RED-ROOTED SPIKE RUSH
1	*Ellisia nyctelea*	AUNT LUCY
2	*Elodea nuttallii*	SLENDER WATERWEED
2	*Elymus canadensis*	CANADA WILD RYE
2	*Elymus villosus*	SILKY WILD RYE
3	*Elymus virginicus*	VIRGINIA WILD RYE
2	*Epilobium coloratum*	CINNAMON WILLOW HERB
2	*Equisetum arvense*	HORSETAIL
1	*Equisetum fluviatile*	PIPES
1	*Eragrostis pectinacea*	SMALL LOVE GRASS
2	*Erigeron annuus*	ANNUAL FLEABANE
3	*Erigeron canadensis*	HORSEWEED
2	*Erigeron philadelphicus*	MARSH FLEABANE
2	*Erigeron strigosus*	DAISY FLEABANE
2	*Erythronium albidum*	WHITE TROUT LILY
2	*Eupatorium altissimum*	TALL BONESET
2	*Eupatorium maculatum*	SPOTTED JOE PYE WEED
2	*Eupatorium perfoliatum*	COMMON BONESET
2	*Eupatorium purpureum*	PURPLE JOE PYE WEED
4	*Eupatorium rugosum*	WHITE SNAKEROOT
2	*Eupatorium serotinum*	LATE BONESET
1	*Euphorbia maculata*	EYEBANE
1	*Euphorbia supina*	SPOTTED CREEPING SPURGE

REL. ABUNDANCE	SPECIES NAME	COMMON NAME
2	*FESTUCA ELATIOR*	TALL FESCUE
3	*Festuca obtusa*	NODDING FESCUE
2	*Floerkea proserpinacoides (8)*	FALSE MERMAID
3	*Fragaria virginiana*	WILD STRAWBERRY
2	*Fraxinus americana*	WHITE ASH
1	*Fraxinus nigra (10)*	BLACK ASH
2	*Fraxinus pennsylvanica*	RED ASH
4	*Fraxinus pennsylvanica subintegerrima*	GREEN ASH
4	*Galium aparine*	ANNUAL BEDSTRAW
1	*Galium asprellum (10)*	ROUGH BEDSTRAW
2	*Galium concinnum*	SHINING BEDSTRAW
2	*Galium triflorum*	SWEET-SCENTED BEDSTRAW
2	*Gaura biennis pitcheri*	COMMON GAURA
2	*Geranium maculatum*	WILD GERANIUM
4	*Geum canadense*	WOOD AVENS
1	*Geum laciniatum trichocarpum*	ROUGH AVENS
3	*GLECHOMA HEDERACEA*	CREEPING CHARLIE
3	*Glyceria striata*	FOWL MANNA GRASS
1	*Gymnocladus dioica (8)*	KENTUCKY COFFEE TREE
4	*Hackelia virginiana*	STICKSEED
2	*Helenium autumnale*	SNEEZEWEED
4	*Helianthus grosseserratus*	SAWTOOTH SUNFLOWER
2	*Helianthus strumosus*	PALE-LEAVED SUNFLOWER
1	*Heliopsis helianthoides*	FALSE SUNFLOWER
2	*Hepatica acutiloba*	SHARP-LOBED HEPATICA
2	*Heracleum maximum*	COW PARSNIP
2	*HESPERIS MATRONALIS* *	DAME'S ROCKET
1	*HORDEUM JUBATUM*	SQUIRREL-TAIL GRASS
1	*Hydrophyllum appendiculatum (8)*	GREAT WATERLEAF
4	*Hydrophyllum virginianum*	VIRGINIA WATERLEAF
2	*HYPERICUM PERFORATUM*	COMMON ST. JOHN'S WORT
2	*Hypericum punctatum*	SPOTTED ST. JOHN'S WORT
3	*Impatiens capensis*	ORANGE JEWELWEED
1	*Impatiens pallida*	YELLOW JEWELWEED
1	*Iodanthus pinnatifidus (8)*	VIOLET CRESS
1	*IPOMOEA HEDERACEA*	IVY-LEAVED MORNING GLORY
2	*Iris virginica shrevei*	BLUE FLAG
2	*Isopyrum biternatum (8)*	FALSE RUE ANEMONE
2	*Juglans nigra*	BLACK WALNUT
2	*Juncus dudleyi*	DUDLEY'S RUSH
2	*Juncus tenuis*	PATH RUSH
2	*Justicia americana*	WATER WILLOW
1	*KOCHIA SCOPARIA*	BURNING BUSH
1	*Lactuca canadensis*	WILD LETTUCE
1	*LACTUCA SALIGNA*	WILLOW LETTUCE
4	*Laportea canadensis*	WOOD NETTLE
1	*Lathyrus palustris myrtifolius*	MARSH VETCHLING
2	*Leersia oryzoides*	RICE CUT GRASS
3	*Leersia virginica*	WHITE GRASS

RELATIVE ABUNDANCE	SPECIES NAME	COMMON NAME
2	*Lemna minor*	SMALL DUCKWEED
2	*LEONURUS CARDIACA*	MOTHERWORT
2	*LEPIDIUM CAMPESTRE*	FIELD CRESS
2	*LIGUSTRUM VULGARE* *	COMMON PRIVET
2	*Lippia lanceolata*	FOG FRUIT
3	*Lobelia siphilitica*	GREAT BLUE LOBELIA
3	*LONICERA X BELLA* *	SHOWY FLY HONEYSUCKLE
3	*LONICERA MAACKII* *	AMUR HONEYSUCKLE
2	*Lonicera prolifera*	YELLOW HONEYSUCKLE
3	*LONICERA TATARICA* *	TARTARIAN HONEYSUCKLE
2	*LYCHNIS ALBA*	WHITE CAMPION
2	*Lycopus americanus*	COMMON WATER HOREHOUND
2	*Lysimachia ciliata*	FRINGED LOOSESTRIFE
4	*LYSIMACHIA NUMMULARIA*	MONEYWORT
2	*MEDICAGO LUPULINA*	BLACK MEDICK
1	*MEDICAGO SATIVA*	ALFALFA
2	*MELILOTUS ALBA*	WHITE SWEET CLOVER
2	*MELILOTUS OFFICINALIS*	YELLOW SWEET CLOVER
2	*Menispermum canadense*	MOONSEED
2	*Mentha arvensis villosa*	WILD MINT
2	*Mertensia virginica*	VIRGINIA BLUEBELLS
2	*Mimulus ringens*	MONKEY FLOWER
2	*Monarda fistulosa*	WILD BERGAMOT
3	*MORUS ALBA*	WHITE MULBERRY
2	*Muhlenbergia frondosa*	COMMON SATIN GRASS
2	*Muhlenbergia schreberi*	NIMBLEWILL
3	*MYOSOTON AQUATICUM*	WATER CHICKWEED
1	*Napaea dioica (10)*	GLADE MALLOW
2	*NEPETA CATARIA*	CATNIP
1	*Nuphar advena*	YELLOW POND LILY
2	*Oenothera biennis*	COMMON EVENING PRIMROSE
1	*Onoclea sensibilis (8)*	SENSITIVE FERN
3	*Osmorhiza longistylis*	SMOOTH SWEET CICELY
3	*Ostrya virginiana*	HOP HORNBEAM
3	*Oxalis europaea*	TALL WOOD SORREL
1	*Panicum capillare*	OLD WITCH GRASS
1	*Panicum dichotomiflorum*	KNEE GRASS
2	*Panicum implicatum*	OLD-FIELD PANIC GRASS
2	*Parthenocissus inserta*	THICKET CREEPER
4	*Parthenocissus quinquefolia*	VIRGINIA CREEPER
2	*PASTINACA SATIVA*	WILD PARSNIP
1	*Pedicularis lanceolata (9)*	FEN BETONY
2	*Penstemon calycosus*	SMOOTH BEARD TONGUE
3	*Penthorum sedoides*	DITCH STONECROP
2	*PHALARIS ARUNDINACEA* *	REED CANARY GRASS
2	*PHLEUM PRATENSE*	TIMOTHY
2	*Phlox divaricata*	WOODLAND PHLOX
1	*Phragmites australis* *	COMMON REED
2	*Physalis heterophylla*	CLAMMY GROUND CHERRY

[illegible]	[illegible]	[illegible]
1	*Physalis subglabrata*	TALL GROUND CHERRY
1	*Physostegia virginiana*	OBEDIENT PLANT
3	*Phytolacca americana*	POKEWEED
4	*Pilea pumila*	CLEARWEED
2	*PLANTAGO LANCEOLATA*	ENGLISH PLANTAIN
2	*Plantago rugelii*	RED-STALKED PLANTAIN
1	*Platanus occidentalis (9)*	SYCAMORE
1	*POA COMPRESSA*	CANADA BLUE GRASS
1	*Poa palustris (9)*	MARSH BLUE GRASS
2	*POA PRATENSIS*	KENTUCKY BLUE GRASS
3	*Podophyllum peltatum*	MAY APPLE
2	*Polemonium reptans*	JACOB'S LADDER
2	*Polygonatum canaliculatum*	SMOOTH SOLOMON'S SEAL
1	*Polygonum amphibium stipulaceum*	WATER KNOTWEED
2	*POLYGONUM CESPITOSUM LONG.*	CREEPING SMARTWEED
2	*POLYGONUM CONVOLVULUS*	BLACK BINDWEED
3	*Polygonum pensylvanicum*	PINKWEED
2	*POLYGONUM PERSICARIA*	LADY'S THUMB
3	*Polygonum punctatum*	SMARTWEED
2	*Polygonum scandens*	CLIMBING FALSE BUCKWHEAT
4	*Polygonum virginianum*	WOODLAND KNOTWEED
3	*Populus deltoides*	EASTERN COTTONWOOD
2	*Potamogeton nodosus*	LONG-LEAVED PONDWEED
1	*Potamogeton pectinatus*	SAGO PONDWEED
1	*POTENTILLA RECTA*	UPRIGHT CINQUEFOIL
3	*Potentilla simplex*	COMMON CINQUEFOIL
3	*Prenanthes alba*	LION'S FOOT
3	*Prunella vulgaris lanceolata*	SELF HEAL
1	*Prunus americana*	WILD PLUM
4	*Prunus serotina*	WILD BLACK CHERRY
3	*Prunus virginiana*	CHOKE CHERRY
2	*Ptelea trifoliata*	WAFER ASH
2	*Pycnanthemum virginianum*	COMMON MOUNTAIN MINT
2	*Quercus alba*	WHITE OAK
1	*Quercus imbricaria*	SHINGLE OAK
3	*Quercus macrocarpa*	BUR OAK
3	*Quercus rubra*	RED OAK
3	*Ranunculus abortivus*	SMALL-FLOWERED BUTTERCUP
1	*Ranunculus recurvatus*	HOOKED BUTTERCUP
2	*Ranunculus sceleratus*	CURSED BUTTERCUP
4	*Ranunculus septentrionalis*	SWAMP BUTTERCUP
1	*Ratibida pinnata*	YELLOW CONEFLOWER
3	*RHAMNUS CATHARTICA* *	COMMON BUCKTHORN
2	*Rhus glabra*	SMOOTH SUMAC
4	*Rhus radicans*	POISON IVY
2	*Ribes americanum*	WILD BLACK CURRANT
4	*Ribes missouriense*	WILD GOOSEBERRY
2	*Rorippa palustris fernaldiana*	MARSH CRESS
3	*ROSA MULTIFLORA* *	MULTIFLORA ROSE

RELATIVE NO.	SPECIES NAME	COMMON NAME
2	*Rosa setigera*	ILLINOIS ROSE
4	*Rubus allegheniensis*	COMMON BLACKBERRY
4	*Rubus occidentalis*	BLACK RASPBERRY
1	*Rubus pensilvanicus*	YANKEE BLACKBERRY
4	*Rudbeckia laciniata*	WILD GOLDEN GLOW
2	*Rudbeckia triloba*	BROWN-EYED SUSAN
2	*Rumex altissimus*	PALE DOCK
3	*RUMEX CRISPUS*	CURLY DOCK
1	*RUMEX OBTUSIFOLIUS*	BITTER DOCK
1	*Rumex orbiculatus (8)*	GREAT WATER DOCK
2	*Sagittaria latifolia*	COMMON ARROWHEAD
3	*Salix amygdaloides*	PEACH-LEAVED WILLOW
2	*Salix discolor*	PUSSY WILLOW
2	*Salix eriocephala*	HEART-LEAVED WILLOW
2	*Salix interior*	SANDBAR WILLOW
2	*Salix nigra*	BLACK WILLOW
3	*Sambucus canadensis*	ELDERBERRY
2	*Sanguinaria canadensis*	BLOODROOT
2	*Sanicula canadensis*	CANADIAN BLACK SNAKEROOT
4	*Sanicula gregaria*	CLUSTERED BLACK SNAKEROOT
2	*SAPONARIA OFFICINALIS*	BOUNCING BET
2	*Scirpus atrovirens*	DARK GREEN RUSH
1	*Scirpus cyperinus*	WOOL GRASS
2	*Scirpus fluviatilis*	RIVER BULRUSH
2	*Scirpus pendulus*	RED BULRUSH
3	*Scrophularia marilandica*	LATE FIGWORT
2	*Scutellaria lateriflora*	MAD-DOG SKULLCAP
2	*SETARIA FABERI*	GIANT FOXTAIL
2	*SETARIA GLAUCA*	YELLOW FOXTAIL
2	*Sicyos angulatus*	BUR CUCUMBER
2	*Silene antirrhina*	SLEEPY CATCHFLY
2	*Silphium perfoliatum*	CUP PLANT
2	*Sium suave*	TALL WATER PARSNIP
4	*Smilacina racemosa*	FEATHERY FALSE SOLOMON'S SEAL
2	*Smilacina stellata*	STARRY FALSE SOLOMON'S SEAL
2	*Smilax lasioneura*	COMMON CARRION FLOWER
3	*Smilax tamnoides hispida*	BRISTLY CAT BRIER
2	*SOLANUM CAROLINENSE*	HORSE NETTLE
3	*SOLANUM DULCAMARA*	BITTERSWEET NIGHTSHADE
2	*Solidago altissima*	TALL GOLDENROD
2	*Solidago canadensis*	CANADA GOLDENROD
2	*Solidago graminifolia nuttallii*	HAIRY GRASS-LEAVED GOLDENROD
3	*Solidago ulmifolia*	ELM-LEAVED GOLDENROD
1	*SONCHUS ULIGINOSUS*	COMMON SOW THISTLE
1	*Stachys palustris homotricha*	WOUNDWORT
2	*Staphylea trifolia*	BLADDERNUT
1	*STELLARIA GRAMINEA*	STARWORT
2	*Symplocarpus foetidus (8)*	SKUNK CABBAGE
2	*TARAXACUM OFFICINALE*	COMMON DANDELION

[illegible]	[illegible]	[illegible]
2	*Teucrium canadense*	GERMANDER
2	*Teucrium occidentale*	GERMANDER
2	*Thalictrum dasycarpum*	PURPLE MEADOW RUE
1	*Thalictrum dioicum*	EARLY MEADOW RUE
1	*Thalictrum revolutum*	WAXY MEADOW RUE
3	*Tilia americana*	AMERICAN LINDEN
1	*Tradescantia ohiensis*	COMMON SPIDERWORT
1	*TRIFOLIUM REPENS*	WHITE CLOVER
3	*Trillium recurvatum*	RED TRILLIUM
1	*TRIODIA FLAVA*	FALSE REDTOP
3	*Triosteum aurantiacum*	EARLY HORSE GENTIAN
1	*Triosteum perfoliatum*	LATE HORSE GENTIAN
2	*Typha latifolia*	BROAD-LEAVED CATTAIL
4	*Ulmus americana*	AMERICAN ELM
2	*ULMUS PUMILA*	SIBERIAN ELM
1	*Ulmus rubra*	SLIPPERY ELM
4	*Urtica procera*	TALL NETTLE
2	*VERBASCUM THAPSUS*	COMMON MULLEIN
2	*Verbena hastata*	BLUE VERVAIN
1	*Verbena stricta*	HOARY VERVAIN
4	*Verbena urticifolia*	HAIRY WHITE VERVAIN
1	*Vernonia fasciculata*	COMMON IRONWEED
4	*Viburnum lentago*	NANNYBERRY
2	*VIBURNUM OPULUS* *	EUROPEAN HIGHBUSH CRANBERRY
3	*Viburnum prunifolium*	BLACK HAW
2	*Viburnum rafinesquianum*	DOWNY ARROW-WOOD
4	*Viola sororia*	COMMON BLUE VIOLET
4	*Vitis riparia*	RIVERBANK GRAPE
1	*XANTHIUM STRUMARIUM*	COCKLEBUR
2	*Xanthoxylum americanum*	PRICKLY ASH
1	*Zizia aurea*	GOLDEN ALEXANDERS

APPENDIX II

FLORISTIC QUALITY ASSESSMENT

The following is a summary of the plant inventory data using Wilhelm and Masters's *Floristic Quality Assessment and Computer Applications*, 1999. Plant nomenclature follows Swink and Wilhelm's *Plants of the Chicago Region*, 1994. The inventory is separated into 2 sections as follows—

Section 1 includes three tables that summarize the inventory assessment data. The table to the left is an analysis of the floristic quality of the project area. In addition to listing the number of native species and total number of species, the mean coefficient of conservatism (MEAN C), floristic quality index (FQI), and mean wetness (MEAN W) values are presented. These are calculated once for native species only, and a second time including adventive species (W/Adventives). The two other tables summarize the number and percent of species in each physiognomic group (A=annual, B=biennial, P=perennial, W=woody, H=herbaceous).

Section 2 includes the species inventory arranged alphabetically, with each species preceded by its database acronym and coefficient of conservatism (C=0-10, weedy to conservative), and followed by its wetness coefficient (W= -5 - +5, wet to dry), corresponding national wetland indicator status (OBL=obligate wetland species, FAC=facultative species, UPL=upland species), physiognomic group, and common name. Adventive species are written in ALL CAPS and have an asterisk (*) for their C value.

The Mean C is the average coefficient of conservatism for the site. The FQI is derived by multiplying Mean C by the square root of the number of species present. In general, site inventories with Mean C and FQI values less than 2.8 and 20, respectively, as surveyed during the growing season are degraded or derelict plant communities, or are very small habitat remnants. Site inventories with Mean C values approaching 3.2 and FQI values in the middle twenties through middle thirties suffer from various kinds of disturbance, but have good potential for habitat restoration and recovery; and, these areas generally have a more diverse component of conservative species than could ever be recreated. When site inventories yield Mean C values 3.5 and have FQI values in the upper thirties or higher, one can be confident there is sufficient native character present for the area to be at least regionally noteworthy—such landscapes are irreplaceable in terms of their unique composition of remnant biodiversity. Site inventories with Mean C and FQI values greater than 4.0 and 50, respectively, are unquestionably rare, highly significant natural areas of statewide importance.

Site: POTAWATOMI WOODS
Locale: Forest Preserve District of Will County, Illinois
Date: April - November 2001
By: Kenneth Johnson

SECTION 1. SUMMARY TABLES

FLORISTIC QUALITY DATA						
293 NATIVE SPECIES	Native	293	78.3%	Adventive	81	21.7%
374 Total Species	Tree	31	8.3%	Tree	2	0.5%
4.2 NATIVE MEAN C	Shrub	19	5.1%	Shrub	8	2.1%
3.3 W/Adventives	W-Vine	7	1.9%	W-Vine	2	0.5%
71.6 NATIVE FQI	H-Vine	5	1.3%	H-Vine	0	0.0%
63.4 W/Adventives	P-Forb	138	36.9%	P-Forb	27	7.2%
-0.4 NATIVE MEAN W	B-Forb	11	2.9%	B-Forb	14	3.7%
0.3 W/Adventives	A-Forb	27	7.2%	A-Forb	13	3.5%
AVG: Faculative	P-Grass	14	3.7%	P-Grass	11	2.9%
	A-Grass	4	1.1%	A-Grass	4	1.1%
	P-Sedge	32	8.6%	P-Sedge	0	0.0%
	A-Sedge	1	0.3%	A-Sedge	0	0.0%
	Cryptogam	4	1.1%			

SECTION 2. SPECIES INVENTORY

ACRONYM	C	SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0	Acer negundo	-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0	Acer saccharinum	-3	FACW	Nt Tree	SILVER MAPLE
ACESAU	3	Acer saccharum	3	FACU	Nt Tree	SUGAR MAPLE
ACOCAL	7	Acorus calamus	-5	OBL	Nt P-Forb	SWEET FLAG
ACTPAC	7	Actaea pachypoda	5	UPL	Nt P-Forb	WHITE BANEBERRY
ACTALT	5	Actinomeris alternifolia	-3	FACW	Nt P-Forb	WINGSTEM
AGANEP	5	Agastache nepetoides	3	FACU	Nt P-Forb	YELLOW GIANT HYSSOP
AGRGRY	2	Agrimonia gryposepala	2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRPUB	5	Agrimonia pubescens	5	UPL	Nt P-Forb	SOFT AGRIMONY
AGRREP	0	AGROPYRON REPENS	3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0	AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ALLPET	0	ALLIARIA PETIOLATA	0	FAC	Ad B-Forb	GARLIC MUSTARD
ALLCAN	2	Allium canadense	3	FACU	Nt P-Forb	WILD ONION
ALLTRB	6	Allium tricoccum burdickii	3	[FACU]	Nt P-Forb	BURDICK'S LEEK
AMBARE	0	Ambrosia artemisiifolia elatior	3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0	Ambrosia trifida	-1	FAC+	Nt A-Forb	GIANT RAGWEED
ANETHA	7	Anemonella thalictroides	5	UPL	Nt P-Forb	RUE ANEMONE
ANGATR	7	Angelica atropurpurea	-5	OBL	Nt P-Forb	GREAT ANGELICA
APOCAN	4	Apocynum cannabinum	0	FAC	Nt P-Forb	INDIAN HEMP
APOSIB	2	Apocynum sibiricum	-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ARALAE	5	Arabis laevigata	5	UPL	Nt B-Forb	SMOOTH BANK CRESS
ARCMIN	0	ARCTIUM MINUS	5	UPL	Ad B-Forb	COMMON BURDOCK
ARIDRA	7	Arisaema dracontium	-3	FACW	Nt P-Forb	GREEN DRAGON
ARITRI	4	Arisaema triphyllum	-2	FACW-	Nt P-Forb	JACK-IN-THE-PULPIT
ARTVUL	0	ARTEMISIA VULGARIS	5	UPL	Ad P-Forb	MUGWORT
ASACAN	7	Asarum canadense	5	UPL	Nt P-Forb	WILD GINGER
ASCINC	4	Asclepias incarnata	-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASCSYR	0	Asclepias syriaca	5	UPL	Nt P-Forb	COMMON MILKWEED
ASITRI	9	Asimina triloba	0	FAC	Nt Tree	PAPAW
ASPOFF	0	ASPARAGUS OFFICINALIS	3	FACU	Ad P-Forb	ASPARAGUS
ASTLAT	4	Aster lateriflorus	-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTNOV	4	Aster novae-angliae	-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTONT	4	Aster ontarionis	0	FAC	Nt P-Forb	ONTARIO ASTER
ASTPIL	0	Aster pilosus	2	FACU+	Nt P-Forb	HAIRY ASTER
ASTPUF	7	Aster puniceus firmus	-5	OBL	Nt P-Forb	SHINING ASTER
ASTSAD	2	Aster sagittifolius drummondii	3	[FACU]	Nt P-Forb	DRUMMOND'S ASTER
ASTSHO	8	Aster shortii	5	UPL	Nt P-Forb	SHORT'S ASTER
ATRPAT	0	ATRIPLEX PATULA	-2	FACW-	Ad A-Forb	COMMON ORACH
BARVUL	0	BARBAREA VULGARIS	0	FAC	Ad B-Forb	YELLOW ROCKET
BERTHU	0	BERBERIS THUNBERGII	4	FACU-	Ad Shrub	JAPANESE BARBERRY
BIDCON	5	Bidens connata	-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1	Bidens frondosa	-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BIDPOL	3	Bidens polylepis	-3	FACW	Nt A-Forb	BUR MARIGOLD

BLEHIR	8	Blephilia hirsuta	4	FACU-	Nt	P-Forb	WOOD MINT
BOECYC	2	Boehmeria cylindrica	-5	OBL	Nt	P-Forb	FALSE NETTLE
BRAKAB	0	Brassica kaber	5	UPL	Nt	A-Forb	CHARLOCK
BRANIG	0	BRASSICA NIGRA	5	UPL	Ad	A-Forb	BLACK MUSTARD
BROINE	0	BROMUS INERMIS	5	UPL	Ad	P-Grass	HUNGARIAN BROME
BROJAP	0	BROMUS JAPONICUS	3	FACU	Ad	A-Grass	JAPANESE CHESS
CALCAN	3	Calamagrostis canadensis	-5	OBL	Nt	P-Grass	BLUE JOINT GRASS
CALTPA	5	Caltha palustris	-5	OBL	Nt	P-Forb	MARSH MARIGOLD
CAMAME	3	Campanula americana	0	FAC	Nt	A-Forb	TALL BELLFLOWER
CARBUL	6	Cardamine bulbosa	-5	OBL	Nt	P-Forb	BULBOUS CRESS
CARDOU	7	Cardamine douglassii	-3	FACW	Nt	P-Forb	PURPLE SPRING CRESS
CARPEN	4	Cardamine pensylvanica	-4	FACW+	Nt	B-Forb	PENNSYLVANIA BITTER CRESS
CXBLAN	1	Carex blanda	0	FAC	Nt	P-Sedge	COMMON WOOD SEDGE
CXCEPP	3	Carex cephalophora	3	FACU	Nt	P-Sedge	SHORT-HEADED BRACTED SEDGE
CXCRIS	4	Carex cristatella	-4	FACW+	Nt	P-Sedge	CRESTED OVAL SEDGE
CXDAVI	7	Carex davisii	-1	FAC+	Nt	P-Sedge	AWNED GRACEFUL SEDGE
CXEMOR	6	Carex emoryi	-5	OBL	Nt	P-Sedge	RIVERBANK SEDGE
CXFRAN	8	Carex frankii	-5	OBL	Nt	P-Sedge	BRISTLY CATTAIL SEDGE
CXGRAN	4	Carex granularis	-4	FACW+	Nt	P-Sedge	PALE SEDGE
CXGRAY	7	Carex grayi	-4	FACW+	Nt	P-Sedge	COMMON BUR SEDGE
CXGRIS	2	Carex grisea	1	[FAC-]	Nt	P-Sedge	WOOD GRAY SEDGE
CXHIRT	5	Carex hirtifolia	5	UPL	Nt	P-Sedge	HAIRY WOOD SEDGE
CXHYST	5	Carex hystericina	-5	OBL	Nt	P-Sedge	PORCUPINE SEDGE
CXINTE	10	Carex interior	-5	OBL	Nt	P-Sedge	PRAIRIE STAR SEDGE
CXJAME	5	Carex jamesii	5	UPL	Nt	P-Sedge	GRASS SEDGE
CXLUPN	7	Carex lupulina	-5	OBL	Nt	P-Sedge	COMMON HOP SEDGE
CXMOLE	2	Carex molesta	-1	FAC+	Nt	P-Sedge	FIELD OVAL SEDGE
CXPELL	4	Carex pellita	-5	OBL	Nt	P-Sedge	BROAD-LEAVED WOOLLY SEDGE
CXPENS	5	Carex pensylvanica	5	UPL	Nt	P-Sedge	COMMON OAK SEDGE
CXRADI	6	Carex radiata	1	[FAC-]	Nt	P-Sedge	STRAIGHT-STYLED WOOD SEDGE
CXROSE	4	Carex rosea	5	UPL	Nt	P-Sedge	CURLY-STYLED WOOD SEDGE
CXSPAR	3	Carex sparganioides	0	FAC	Nt	P-Sedge	LOOSE-HEADED BRACTED SEDGE
CXSTIP	3	Carex stipata	-5	OBL	Nt	P-Sedge	COMMON FOX SEDGE
CXSTRI	5	Carex stricta	-5	OBL	Nt	P-Sedge	COMMON TUSSOCK SEDGE
CXSUBE	8	Carex suberecta	-5	OBL	Nt	P-Sedge	WEDGE-FRUITED OVAL SEDGE
CXTRIB	3	Carex tribuloides	-4	FACW+	Nt	P-Sedge	AWL-FRUITED OVAL SEDGE
CXTRIC	7	Carex trichocarpa	-5	OBL	Nt	P-Sedge	HAIRY-FRUITED LAKE SEDGE
CXVULP	2	Carex vulpinoidea	-5	OBL	Nt	P-Sedge	BROWN FOX SEDGE
CARCOR	7	Carya cordiformis	3	[FACU]	Nt	Tree	BITTERNUT HICKORY
CAROVT	5	Carya ovata	3	FACU	Nt	Tree	SHAGBARK HICKORY
CELORB	0	CELASTRUS ORBICULATUS	5	UPL	Ad	W-Vine	ORIENTAL BITTERSWEET
CELOCC	3	Celtis occidentalis	1	FAC-	Nt	Tree	HACKBERRY
CERVUL	0	CERASTIUM VULGATUM	3	FACU	Ad	P-Forb	MOUSE-EAR CHICKWEED
CERDEM	5	Ceratophyllum demersum	-5	OBL	Nt	P-Forb	HORNWORT
CERCAN	10	Cercis canadensis	3	FACU	Nt	Tree	REDBUD
CHEGLB	8	Chelone glabra	-5	OBL	Nt	P-Forb	TURTLEHEAD
CHEALB	0	CHENOPODIUM ALBUM	1	FAC-	Ad	A-Forb	LAMB'S QUARTERS
CHRLEP	0	CHRYSANTHEMUM LEUCANTHEMUM PINNATIFIDUM	5	UPL	Ad	P-Forb	OX-EYE DAISY
CICINT	0	CICHORIUM INTYBUS	5	UPL	Ad	P-Forb	CHICORY
CICMAC	6	Cicuta maculata	-5	OBL	Nt	P-Forb	WATER HEMLOCK
CINARU	5	Cinna arundinacea	-3	FACW	Nt	P-Grass	COMMON WOOD REED
CIRARV	0	CIRSIUM ARVENSE	5	UPL	Ad	P-Forb	FIELD THISTLE
CIRDIS	2	Cirsium discolor	5	UPL	Nt	B-Forb	PASTURE THISTLE
CIRMUT	10	Cirsium muticum	-5	OBL	Nt	B-Forb	SWAMP THISTLE
CIRVUL	0	CIRSIUM VULGARE	4	FACU-	Ad	B-Forb	BULL THISTLE
CLAVIR	2	Claytonia virginica	3	FACU	Nt	P-Forb	SPRING BEAUTY
CONMAC	0	CONIUM MACULATUM	-3	FACW	Ad	B-Forb	POISON HEMLOCK
CONARV	0	CONVOLVULUS ARVENSIS	5	UPL	Ad	P-Forb	FIELD BINDWEED
CONSEP	1	Convolvulus sepium	0	FAC	Nt	P-Forb	HEDGE BINDWEED
COROBL	6	Cornus obliqua	-4	FACW+	Nt	Shrub	BLUE-FRUITED DOGWOOD
CORVAR	0	CORONILLA VARIA	5	UPL	Ad	P-Forb	CROWN VETCH
CRACRU	2	Crataegus crus-galli	0	FAC	Nt	Tree	COCKSPUR HAWTHORN
CRAMOL	2	Crataegus mollis	4	FACU-	Nt	Tree	DOWNY HAWTHORN
CRASUC	5	Crataegus succulenta	5	UPL	Nt	Tree	FLESHY HAWTHORN
CRYCAN	2	Cryptotaenia canadensis	0	FAC	Nt	P-Forb	HONEWORT
CUSGRO	4	Cuscuta gronovii	-5	[OBL]	Nt	A-Forb	COMMON DODDER
CYPESC	0	Cyperus esculentus	-1	[FAC+]	Nt	P-Sedge	FIELD NUT SEDGE
CYPFER	2	Cyperus ferruginescens	-5	OBL	Nt	A-Sedge	RUSTY NUT SEDGE
DACGLO	0	DACTYLIS GLOMERATA	3	FACU	Ad	P-Grass	ORCHARD GRASS
DAUCAR	0	DAUCUS CAROTA	5	UPL	Ad	B-Forb	QUEEN ANNE'S LACE
DENLAC	5	Dentaria laciniata	3	FACU	Nt	P-Forb	TOOTHWORT

DIAARM	0	DIANTHUS ARMERIA	5	UPL	Ad	A-Forb	DEPTFORD PINK
DIGSAS	0	DIGITARIA SANGUINALIS	3	FACU	Ad	A-Grass	HAIRY CRAB GRASS
DIOVIL	7	Dioscorea villosa	1	FAC-	Nt	H-Vine	WILD YAM
DIPLAC	0	DIPSACUS LACINIATUS	5	UPL	Ad	B-Forb	CUT-LEAVED TEASEL
DIPSYL	0	DIPSACUS SYLVESTRIS	5	UPL	Ad	B-Forb	COMMON TEASEL
DRYTHP	6	Dryopteris thelypteris pubescens	-5	[OBL]	Cryptogam		MARSH SHIELD FERN
DUCIND	0	DUCHESNEA INDICA	4	FACU-	Ad	P-Forb	INDIAN STRAWBERRY
DYSPAP	0	DYSSODIA PAPPOSA	5	UPL	Ad	A-Forb	FETID MARIGOLD
ECHCRU	0	Echinochloa crusgalli	-3	FACW	Nt	A-Grass	BARNYARD GRASS
ECHLOB	5	Echinocystis lobata	-2	FACW-	Nt	H-Vine	WILD CUCUMBER
ELEERY	2	Eleocharis erythropoda	-5	OBL	Nt	P-Sedge	RED-ROOTED SPIKE RUSH
ELLNYC	2	Ellisia nyctelea	-1	FAC+	Nt	A-Forb	AUNT LUCY
ELONUT	7	Elodea nuttallii	-5	OBL	Nt	P-Forb	SLENDER WATERWEED
ELYCAN	4	Elymus canadensis	1	FAC-	Nt	P-Grass	CANADA WILD RYE
ELYVIL	5	Elymus villosus	3	FACU	Nt	P-Grass	SILKY WILD RYE
ELYVIR	4	Elymus virginicus	-2	FACW-	Nt	P-Grass	VIRGINIA WILD RYE
EPICOL	3	Epilobium coloratum	-5	OBL	Nt	P-Forb	CINNAMON WILLOW HERB
EQUARV	0	Equisetum arvense	0	FAC	Cryptogam		HORSETAIL
EQUFLU	7	Equisetum fluviatile	-5	OBL	Cryptogam		PIPES
ERAPEC	0	Eragrostis pectinacea	0	FAC	Nt	A-Grass	SMALL LOVE GRASS
ERIANS	0	Erigeron annuus	1	FAC-	Nt	B-Forb	ANNUAL FLEABANE
ERICAN	0	Erigeron canadensis	1	FAC-	Nt	A-Forb	HORSEWEED
ERIPHI	4	Erigeron philadelphicus	-3	FACW	Nt	P-Forb	MARSH FLEABANE
ERISTR	5	Erigeron strigosus	5	[UPL]	Nt	B-Forb	DAISY FLEABANE
ERYALB	5	Erythronium albidum	5	UPL	Nt	P-Forb	WHITE TROUT LILY
EUPALT	0	Eupatorium altissimum	3	[FACU]	Nt	P-Forb	TALL BONESET
EUPMAM	4	Eupatorium maculatum	-5	OBL	Nt	P-Forb	SPOTTED JOE PYE WEED
EUPPER	4	Eupatorium perfoliatum	-4	FACW+	Nt	P-Forb	COMMON BONESET
EUPPUR	7	Eupatorium purpureum	5	UPL	Nt	P-Forb	PURPLE JOE PYE WEED
EUPRUG	4	Eupatorium rugosum	5	UPL	Nt	P-Forb	WHITE SNAKEROOT
EUPSEM	0	Eupatorium serotinum	-1	FAC+	Nt	P-Forb	LATE BONESET
EUPMAA	0	Euphorbia maculata	3	FACU	Nt	A-Forb	EYEBANE
EUPSUP	0	Euphorbia supina	4	FACU-	Nt	A-Forb	SPOTTED CREEPING SPURGE
FESELA	0	FESTUCA ELATIOR	2	FACU+	Ad	P-Grass	TALL FESCUE
FESOBT	5	Festuca obtusa	2	FACU+	Nt	P-Grass	NODDING FESCUE
FLOPRO	8	Floerkea proserpinacoides	-1	FAC+	Nt	A-Forb	FALSE MERMAID
FRAVIR	1	Fragaria virginiana	1	FAC-	Nt	P-Forb	WILD STRAWBERRY
FRAAMA	5	Fraxinus americana	3	FACU	Nt	Tree	WHITE ASH
FRANIG	10	Fraxinus nigra	-4	FACW+	Nt	Tree	BLACK ASH
FRAPEP	5	Fraxinus pennsylvanica	-3	FACW	Nt	Tree	RED ASH
FRAPES	1	Fraxinus pennsylvanica subintegerrima	0	FAC	Nt	Tree	GREEN ASH
GALAPA	1	Galium aparine	3	FACU	Nt	A-Forb	ANNUAL BEDSTRAW
GALASP	10	Galium asprellum	-5	OBL	Nt	P-Forb	ROUGH BEDSTRAW
GALCON	5	Galium concinnum	5	[UPL]	Nt	P-Forb	SHINING BEDSTRAW
GALTRF	5	Galium triflorum	2	FACU+	Nt	P-Forb	SWEET-SCENTED BEDSTRAW
GAUBIP	2	Gaura biennis pitcheri	4	FACU-	Nt	B-Forb	COMMON GAURA
GERMAC	4	Geranium maculatum	5	[UPL]	Nt	P-Forb	WILD GERANIUM
GEUCAN	1	Geum canadense	0	FAC	Nt	P-Forb	WOOD AVENS
GEULAT	2	Geum laciniatum trichocarpum	-3	FACW	Nt	P-Forb	ROUGH AVENS
GLEHED	0	GLECHOMA HEDERACEA	3	FACU	Ad	P-Forb	CREEPING CHARLIE
GLYSTR	4	Glyceria striata	-3	[FACW]	Nt	P-Grass	FOWL MANNA GRASS
GYMDIO	8	Gymnocladus dioica	5	UPL	Nt	Tree	KENTUCKY COFFEE TREE
HACVIR	0	Hackelia virginiana	1	FAC-	Nt	B-Forb	STICKSEED
HELAUT	5	Helenium autumnale	-4	FACW+	Nt	P-Forb	SNEEZEWEED
HELGRO	2	Helianthus grosseserratus	-2	FACW-	Nt	P-Forb	SAWTOOTH SUNFLOWER
HELSTR	5	Helianthus strumosus	5	UPL	Nt	P-Forb	PALE-LEAVED SUNFLOWER
HELHEL	5	Heliopsis helianthoides	5	UPL	Nt	P-Forb	FALSE SUNFLOWER
HEPACU	6	Hepatica acutiloba	5	UPL	Nt	P-Forb	SHARP-LOBED HEPATICA
HERMAX	5	Heracleum maximum	5	UPL	Nt	P-Forb	COW PARSNIP
HESMAT	0	HESPERIS MATRONALIS	5	UPL	Ad	P-Forb	DAME'S ROCKET
HORJUB	0	HORDEUM JUBATUM	-1	FAC+	Ad	P-Grass	SQUIRREL-TAIL GRASS
HYDAPP	8	Hydrophyllum appendiculatum	5	UPL	Nt	P-Forb	GREAT WATERLEAF
HYDVIR	5	Hydrophyllum virginianum	0	[FAC]	Nt	P-Forb	VIRGINIA WATERLEAF
HYPPER	0	HYPERICUM PERFORATUM	5	UPL	Ad	P-Forb	COMMON ST. JOHN'S WORT
HYPPUN	4	Hypericum punctatum	3	[FACU]	Nt	P-Forb	SPOTTED ST. JOHN'S WORT
IMPCAP	3	Impatiens capensis	-3	FACW	Nt	A-Forb	ORANGE JEWELWEED
IMPPAL	6	Impatiens pallida	-1	[FAC+]	Nt	A-Forb	YELLOW JEWELWEED
IODPIN	8	Iodanthus pinnatifidus	-3	FACW	Nt	P-Forb	VIOLET CRESS
IPOHED	0	IPOMOEA HEDERACEA	0	FAC	Ad	A-Forb	IVY-LEAVED MORNING GLORY
IRIVIS	5	Iris virginica shrevei	-5	OBL	Nt	P-Forb	BLUE FLAG
ISOBIT	8	Isopyrum biternatum	5	UPL	Nt	P-Forb	FALSE RUE ANEMONE

JUGNIG	5	Juglans nigra	3	FACU	Nt	Tree	BLACK WALNUT
JUNDUD	4	Juncus dudleyi	0	[FAC]	Nt	P-Forb	DUDLEY'S RUSH
JUNTEN	0	Juncus tenuis	2	[FACU+]	Nt	P-Forb	PATH RUSH
JUSAME	6	Justicia americana	-5	OBL	Nt	P-Forb	WATER WILLOW
KOCSCO	0	KOCHIA SCOPARIA	4	FACU-	Ad	A-Forb	BURNING BUSH
LACCAN	2	Lactuca canadensis	2	FACU+	Nt	B-Forb	WILD LETTUCE
LACSAL	0	LACTUCA SALIGNA	3	FACU	Ad	B-Forb	WILLOW LETTUCE
LAPCAN	3	Laportea canadensis	-3	FACW	Nt	P-Forb	WOOD NETTLE
LATPAM	6	Lathyrus palustris myrtifolius	-3	FACW	Nt	P-Forb	MARSH VETCHLING
LEEORY	4	Leersia oryzoides	-5	OBL	Nt	P-Grass	RICE CUT GRASS
LEEVIR	7	Leersia virginica	-3	FACW	Nt	P-Grass	WHITE GRASS
LEMMIO	5	Lemna minor	-5	OBL	Nt	A-Forb	SMALL DUCKWEED
LEOCAR	0	LEONURUS CARDIACA	5	UPL	Ad	P-Forb	MOTHERWORT
LEPCAM	0	LEPIDIUM CAMPESTRE	5	UPL	Ad	B-Forb	FIELD CRESS
LIGVUL	0	LIGUSTRUM VULGARE	1	FAC-	Ad	Shrub	COMMON PRIVET
LIPLAN	6	Lippia lanceolata	-5	OBL	Nt	P-Forb	FOG FRUIT
LOBSIP	6	Lobelia siphilitica	-4	FACW+	Nt	P-Forb	GREAT BLUE LOBELIA
LONMAA	0	LONICERA MAACKII	5	UPL	Ad	Shrub	AMUR HONEYSUCKLE
LONPRO	7	Lonicera prolifera	5	UPL	Nt	W-Vine	YELLOW HONEYSUCKLE
LONTAT	0	LONICERA TATARICA	5	[UPL]	Ad	Shrub	TARTARIAN HONEYSUCKLE
LONBEL	0	LONICERA X BELLA	4	FACU-	Ad	Shrub	SHOWY FLY HONEYSUCKLE
LYCALB	0	LYCHNIS ALBA	5	UPL	Ad	A-Forb	WHITE CAMPION
LYCAME	5	Lycopus americanus	-5	OBL	Nt	P-Forb	COMMON WATER HOREHOUND
LYSCIL	4	Lysimachia ciliata	-3	FACW	Nt	P-Forb	FRINGED LOOSESTRIFE
LYSNUM	0	LYSIMACHIA NUMMULARIA	-4	FACW+	Ad	P-Forb	MONEYWORT
MEDLUP	0	MEDICAGO LUPULINA	1	FAC-	Ad	A-Forb	BLACK MEDICK
MEDSAT	0	MEDICAGO SATIVA	5	UPL	Ad	P-Forb	ALFALFA
MELALB	0	MELILOTUS ALBA	3	FACU	Ad	B-Forb	WHITE SWEET CLOVER
MELLOF	0	MELILOTUS OFFICINALIS	3	FACU	Ad	B-Forb	YELLOW SWEET CLOVER
MENCAN	6	Menispermum canadense	-1	FAC+	Nt	W-Vine	MOONSEED
MENARV	5	Mentha arvensis villosa	-5	[OBL]	Nt	P-Forb	WILD MINT
MERVIR	5	Mertensia virginica	-3	FACW	Nt	P-Forb	VIRGINIA BLUEBELLS
MIMRIN	6	Mimulus ringens	-5	OBL	Nt	P-Forb	MONKEY FLOWER
MONFIS	4	Monarda fistulosa	3	FACU	Nt	P-Forb	WILD BERGAMOT
MORALB	0	MORUS ALBA	0	FAC	Ad	Tree	WHITE MULBERRY
MUHFRO	3	Muhlenbergia frondosa	-3	FACW	Nt	P-Grass	COMMON SATIN GRASS
MUHSCH	0	Muhlenbergia schreberi	3	[FACU]	Nt	P-Grass	NIMBLEWILL
MYOAQU	0	MYOSOTON AQUATICUM	-1	FAC+	Ad	P-Forb	WATER CHICKWEED
NAPDIO	10	Napaea dioica	-2	FACW-	Nt	P-Forb	GLADE MALLOW
NEPCAT	0	NEPETA CATARIA	1	FAC-	Ad	P-Forb	CATNIP
NUPADV	7	Nuphar advena	-5	OBL	Nt	P-Forb	YELLOW POND LILY
OENBIE	0	Oenothera biennis	3	FACU	Nt	B-Forb	COMMON EVENING PRIMROSE
ONOSEN	8	Onoclea sensibilis	-3	FACW	Cryptogam		SENSITIVE FERN
OSMLON	3	Osmorhiza longistylis	4	FACU-	Nt	P-Forb	SMOOTH SWEET CICELY
OSTVIR	5	Ostrya virginiana	4	FACU-	Nt	Tree	HOP HORNBEAM
OXAEUR	0	Oxalis europaea	3	FACU	Nt	P-Forb	TALL WOOD SORREL
PANCAP	1	Panicum capillare	0	FAC	Nt	A-Grass	OLD WITCH GRASS
PANDII	0	Panicum dichotomiflorum	-2	FACW-	Nt	A-Grass	KNEE GRASS
PANIMP	2	Panicum implicatum	1	FAC-	Nt	P-Grass	OLD-FIELD PANIC GRASS
PARINS	1	Parthenocissus inserta	3	FACU	Nt	W-Vine	THICKET CREEPER
PARQUI	2	Parthenocissus quinquefolia	1	FAC-	Nt	W-Vine	VIRGINIA CREEPER
PASSAT	0	PASTINACA SATIVA	5	UPL	Ad	B-Forb	WILD PARSNIP
PEDLAN	9	Pedicularis lanceolata	-5	[OBL]	Nt	P-Forb	FEN BETONY
PENCAL	7	Penstemon calycosus	3	FACU	Nt	P-Forb	SMOOTH BEARD TONGUE
PENSED	5	Penthorum sedoides	-5	OBL	Nt	P-Forb	DITCH STONECROP
PHAARU	0	PHALARIS ARUNDINACEA	-4	FACW+	Ad	P-Grass	REED CANARY GRASS
PHLPRA	0	PHLEUM PRATENSE	3	FACU	Ad	P-Grass	TIMOTHY
PHLDIV	5	Phlox divaricata	3	FACU	Nt	P-Forb	WOODLAND PHLOX
PHRAUS	1	Phragmites australis	-4	FACW+	Nt	P-Grass	COMMON REED
PHYHET	3	Physalis heterophylla	5	UPL	Nt	P-Forb	CLAMMY GROUND CHERRY
PHYSUB	0	Physalis subglabrata	5	UPL	Nt	P-Forb	TALL GROUND CHERRY
PHYVIV	6	Physostegia virginiana	-5	[OBL]	Nt	P-Forb	OBEDIENT PLANT
PHYAME	1	Phytolacca americana	1	FAC-	Nt	P-Forb	POKEWEED
PILPUM	5	Pilea pumila	-3	FACW	Nt	A-Forb	CLEARWEED
PLALAN	0	PLANTAGO LANCEOLATA	0	FAC	Ad	P-Forb	ENGLISH PLANTAIN
PLARUG	0	Plantago rugelii	0	FAC	Nt	A-Forb	RED-STALKED PLANTAIN
PLAOCC	9	Platanus occidentalis	-3	FACW	Nt	Tree	SYCAMORE
POACOM	0	POA COMPRESSA	2	FACU+	Ad	P-Grass	CANADA BLUE GRASS
POAPAS	9	Poa palustris	-4	FACW+	Nt	P-Grass	MARSH BLUE GRASS
POAPRA	0	POA PRATENSIS	1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
PODPEL	4	Podophyllum peltatum	3	FACU	Nt	P-Forb	MAY APPLE

POLREP	5	Polemonium reptans	0	FAC	Nt	P-Forb	JACOB'S LADDER
POLCAL	3	Polygonatum canaliculatum	3	FACU	Nt	P-Forb	SMOOTH SOLOMON'S SEAL
POLAMS	4	Polygonum amphibium stipulaceum	-5	OBL	Nt	P-Forb	WATER KNOTWEED
POLCEL	0	POLYGONUM CESPITOSUM LONGISETUM	5	UPL	Ad	A-Forb	CREEPING SMARTWEED
POLCON	0	POLYGONUM CONVOLVULUS	1	FAC-	Ad	A-Forb	BLACK BINDWEED
POLPEN	0	Polygonum pensylvanicum	-4	FACW+	Nt	A-Forb	PINKWEED
POLPER	0	POLYGONUM PERSICARIA	1	[FAC-]	Ad	A-Forb	LADY'S THUMB
POLPUN	6	Polygonum punctatum	-5	OBL	Nt	A-Forb	SMARTWEED
POLSCN	1	Polygonum scandens	0	FAC	Nt	H-Vine	CLIMBING FALSE BUCKWHEAT
POLGVI	2	Polygonum virginianum	0	FAC	Nt	P-Forb	WOODLAND KNOTWEED
POPDEL	2	Populus deltoides	-1	FAC+	Nt	Tree	EASTERN COTTONWOOD
POTNOD	7	Potamogeton nodosus	-5	OBL	Nt	P-Forb	LONG-LEAVED PONDWEED
POTPEC	5	Potamogeton pectinatus	-5	OBL	Nt	P-Forb	SAGO PONDWEED
POTREC	0	POTENTILLA RECTA	5	UPL	Ad	P-Forb	UPRIGHT CINQUEFOIL
POTSIS	4	Potentilla simplex	4	FACU-	Nt	P-Forb	COMMON CINQUEFOIL
PREALB	5	Prenanthes alba	3	FACU	Nt	P-Forb	LION'S FOOT
PRUVLA	0	Prunella vulgaris lanceolata	3	[FACU]	Nt	P-Forb	SELF HEAL
PRUAME	5	Prunus americana	5	UPL	Nt	Tree	WILD PLUM
PRUSER	1	Prunus serotina	3	FACU	Nt	Tree	WILD BLACK CHERRY
PRUVIR	3	Prunus virginiana	3	[FACU]	Nt	Shrub	CHOKE CHERRY
PTETRT	7	Ptelea trifoliata	2	FACU+	Nt	Shrub	WAFER ASH
PYCVIR	5	Pycnanthemum virginianum	-4	FACW+	Nt	P-Forb	COMMON MOUNTAIN MINT
QUEALB	5	Quercus alba	0	FAC	Nt	Tree	WHITE OAK
QUEIMB	7	Quercus imbricaria	1	FAC-	Nt	Tree	SHINGLE OAK
QUEMAC	5	Quercus macrocarpa	1	FAC-	Nt	Tree	BUR OAK
QUERUB	7	Quercus rubra	3	FACU	Nt	Tree	RED OAK
RANABO	0	Ranunculus abortivus	-2	FACW-	Nt	A-Forb	SMALL-FLOWERED BUTTERCUP
RANREC	5	Ranunculus recurvatus	-3	FACW	Nt	A-Forb	HOOKED BUTTERCUP
RANSCE	6	Ranunculus sceleratus	-5	OBL	Nt	A-Forb	CURSED BUTTERCUP
RANSEP	5	Ranunculus septentrionalis	-4	FACW+	Nt	P-Forb	SWAMP BUTTERCUP
RATPIN	4	Ratibida pinnata	5	UPL	Nt	P-Forb	YELLOW CONEFLOWER
RHACAT	0	RHAMNUS CATHARTICA	3	FACU	Ad	Shrub	COMMON BUCKTHORN
RHUGLA	1	Rhus glabra	5	UPL	Nt	Shrub	SMOOTH SUMAC
RHURAD	2	Rhus radicans	-1	FAC+	Nt	W-Vine	POISON IVY
RIBAME	7	Ribes americanum	-3	FACW	Nt	Shrub	WILD BLACK CURRANT
RIBMIS	5	Ribes missouriense	5	UPL	Nt	Shrub	WILD GOOSEBERRY
RORPAF	4	Rorippa palustris fernaldiana	-5	OBL	Nt	A-Forb	MARSH CRESS
ROSMUL	0	ROSA MULTIFLORA	3	FACU	Ad	Shrub	MULTIFLORA ROSE
ROSSET	7	Rosa setigera	2	FACU+	Nt	Shrub	ILLINOIS ROSE
RUBALL	3	Rubus allegheniensis	2	FACU+	Nt	Shrub	COMMON BLACKBERRY
RUBOCC	2	Rubus occidentalis	5	UPL	Nt	Shrub	BLACK RASPBERRY
RUBPEN	3	Rubus pensilvanicus	3	FACU	Nt	Shrub	YANKEE BLACKBERRY
RUDLAC	5	Rudbeckia laciniata	-4	FACW+	Nt	P-Forb	WILD GOLDEN GLOW
RUDTRI	3	Rudbeckia triloba	1	FAC-	Nt	A-Forb	BROWN-EYED SUSAN
RUMALT	2	Rumex altissimus	-2	FACW-	Nt	P-Forb	PALE DOCK
RUMCRI	0	RUMEX CRISPUS	-1	FAC+	Ad	P-Forb	CURLY DOCK
RUMOBT	0	RUMEX OBTUSIFOLIUS	-3	FACW	Ad	P-Forb	BITTER DOCK
RUMORB	8	Rumex orbiculatus	-5	OBL	Nt	P-Forb	GREAT WATER DOCK
SAGLAT	4	Sagittaria latifolia	-5	OBL	Nt	P-Forb	COMMON ARROWHEAD
SALAMY	5	Salix amygdaloides	-3	FACW	Nt	Tree	PEACH-LEAVED WILLOW
SALDIS	2	Salix discolor	-3	FACW	Nt	Shrub	PUSSY WILLOW
SALERI	5	Salix eriocephala	-3	FACW	Nt	Shrub	HEART-LEAVED WILLOW
SALINT	1	Salix interior	-5	OBL	Nt	Shrub	SANDBAR WILLOW
SALNIG	4	Salix nigra	-5	OBL	Nt	Tree	BLACK WILLOW
SAMCAN	1	Sambucus canadensis	-2	FACW-	Nt	Shrub	ELDERBERRY
SANCAD	6	Sanguinaria canadensis	4	FACU-	Nt	P-Forb	BLOODROOT
SANCAA	7	Sanicula canadensis	2	FACU+	Nt	B-Forb	CANADIAN BLACK SNAKEROOT
SANGRE	2	Sanicula gregaria	-1	FAC+	Nt	P-Forb	CLUSTERED BLACK SNAKEROOT
SAPOFF	0	SAPONARIA OFFICINALIS	3	FACU	Ad	P-Forb	BOUNCING BET
SCIATR	4	Scirpus atrovirens	-5	OBL	Nt	P-Sedge	DARK GREEN RUSH
SCICYP	6	Scirpus cyperinus	-5	OBL	Nt	P-Sedge	WOOL GRASS
SCIFLU	4	Scirpus fluviatilis	-5	OBL	Nt	P-Sedge	RIVER BULRUSH
SCIPEN	4	Scirpus pendulus	-5	OBL	Nt	P-Sedge	RED BULRUSH
SCRMAR	4	Scrophularia marilandica	4	FACU-	Nt	P-Forb	LATE FIGWORT
SCULAT	5	Scutellaria lateriflora	-5	OBL	Nt	P-Forb	MAD-DOG SKULLCAP
SETFAB	0	SETARIA FABERI	2	FACU+	Ad	A-Grass	GIANT FOXTAIL
SETGLA	0	SETARIA GLAUCA	0	FAC	Ad	A-Grass	YELLOW FOXTAIL
SICANG	5	Sicyos angulatus	-2	FACW-	Nt	H-Vine	BUR CUCUMBER
SILANT	1	Silene antirrhina	5	UPL	Nt	A-Forb	SLEEPY CATCHFLY
SILPER	5	Silphium perfoliatum	-2	FACW-	Nt	P-Forb	CUP PLANT
SIUSUA	7	Sium suave	-5	OBL	Nt	P-Forb	TALL WATER PARSNIP

SMIRAC	3	Smilacina racemosa	3	FACU	Nt	P-Forb	FEATHERY FALSE SOLOMON'S SL
SMISTE	5	Smilacina stellata	1	FAC-	Nt	P-Forb	STARRY FALSE SOLOMON'S SEAL
SMILAS	5	Smilax lasioneura	5	[UPL]	Nt	H-Vine	COMMON CARRION FLOWER
SMITAH	5	Smilax tamnoides hispida	5	UPL	Nt	W-Vine	BRISTLY CAT BRIER
SOLCAR	0	SOLANUM CAROLINENSE	4	FACU-	Ad	P-Forb	HORSE NETTLE
SOLDUL	0	SOLANUM DULCAMARA	0	FAC	Ad	W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1	Solidago altissima	3	FACU	Nt	P-Forb	TALL GOLDENROD
SOLCAN	1	Solidago canadensis	3	FACU	Nt	P-Forb	CANADA GOLDENROD
SOLGRN	3	Solidago graminifolia nuttallii	0	[FAC]	Nt	P-Forb	HAIRY GRASS-LEAVED GOLDENROD
SOLULM	5	Solidago ulmifolia	5	UPL	Nt	P-Forb	ELM-LEAVED GOLDENROD
SONULI	0	SONCHUS ULIGINOSUS	1	FAC-	Ad	P-Forb	COMMON SOW THISTLE
STAPAH	5	Stachys palustris homotricha	-5	OBL	Nt	P-Forb	WOUNDWORT
STATRI	7	Staphylea trifolia	0	FAC	Nt	Shrub	BLADDERNUT
STEGRN	0	STELLARIA GRAMINEA	5	UPL	Ad	P-Forb	STARWORT
SYMFOE	8	Symplocarpus foetidus	-5	OBL	Nt	P-Forb	SKUNK CABBAGE
TAROFF	0	TARAXACUM OFFICINALE	3	FACU	Ad	P-Forb	COMMON DANDELION
TEUCAN	3	Teucrium canadense	-3	FACW	Nt	P-Forb	GERMANDER
TEUOCC	3	Teucrium occidentale	-3	FACW	Nt	P-Forb	GERMANDER
THADAD	5	Thalictrum dasycarpum	-2	FACW-	Nt	P-Forb	PURPLE MEADOW RUE
THADIO	7	Thalictrum dioicum	2	FACU+	Nt	P-Forb	EARLY MEADOW RUE
THAREV	6	Thalictrum revolutum	0	FAC	Nt	P-Forb	WAXY MEADOW RUE
TILAME	5	Tilia americana	3	FACU	Nt	Tree	AMERICAN LINDEN
TRAOHI	2	Tradescantia ohiensis	2	FACU+	Nt	P-Forb	COMMON SPIDERWORT
TRIREP	0	TRIFOLIUM REPENS	2	FACU+	Ad	P-Forb	WHITE CLOVER
TRIREC	5	Trillium recurvatum	4	FACU-	Nt	P-Forb	RED TRILLIUM
TRIFLA	0	TRIODIA FLAVA	5	UPL	Ad	P-Grass	FALSE REDTOP
TRIAUA	5	Triosteum aurantiacum	5	UPL	Nt	P-Forb	EARLY HORSE GENTIAN
TRIPER	5	Triosteum perfoliatum	5	UPL	Nt	P-Forb	LATE HORSE GENTIAN
TYPLAT	1	Typha latifolia	-5	OBL	Nt	P-Forb	BROAD-LEAVED CATTAIL
ULMAME	3	Ulmus americana	-2	FACW-	Nt	Tree	AMERICAN ELM
ULMPUM	0	ULMUS PUMILA	5	UPL	Ad	Tree	SIBERIAN ELM
ULMRUB	4	Ulmus rubra	0	FAC	Nt	Tree	SLIPPERY ELM
URTPRO	2	Urtica procera	-1	FAC+	Nt	P-Forb	TALL NETTLE
VERTHA	0	VERBASCUM THAPSUS	5	UPL	Ad	B-Forb	COMMON MULLEIN
VERHAS	4	Verbena hastata	-4	FACW+	Nt	P-Forb	BLUE VERVAIN
VERSTR	4	Verbena stricta	5	UPL	Nt	P-Forb	HOARY VERVAIN
VERURU	5	Verbena urticifolia	5	UPL	Nt	P-Forb	HAIRY WHITE VERVAIN
VERFAS	5	Vernonia fasciculata	-3	FACW	Nt	P-Forb	COMMON IRONWEED
VIBLEN	5	Viburnum lentago	-1	FAC+	Nt	Shrub	NANNYBERRY
VIBOPU	0	VIBURNUM OPULUS	3	[FACU]	Ad	Shrub	EUROPEAN HIGHBUSH CRANBERRY
VIBPRU	5	Viburnum prunifolium	3	FACU	Nt	Shrub	BLACK HAW
VIBRAF	5	Viburnum rafinesquianum	5	UPL	Nt	Shrub	DOWNY ARROW-WOOD
VIOSOR	3	Viola sororia	1	FAC-	Nt	P-Forb	COMMON BLUE VIOLET
VITRIP	2	Vitis riparia	-2	FACW-	Nt	W-Vine	RIVERBANK GRAPE
XANSTR	0	XANTHIUM STRUMARIUM	0	FAC	Ad	A-Forb	COCKLEBUR
XANAME	3	Xanthoxylum americanum	5	UPL	Nt	Shrub	PRICKLY ASH
ZIZAUR	7	Zizia aurea	-1	FAC+	Nt	P-Forb	GOLDEN ALEXANDERS

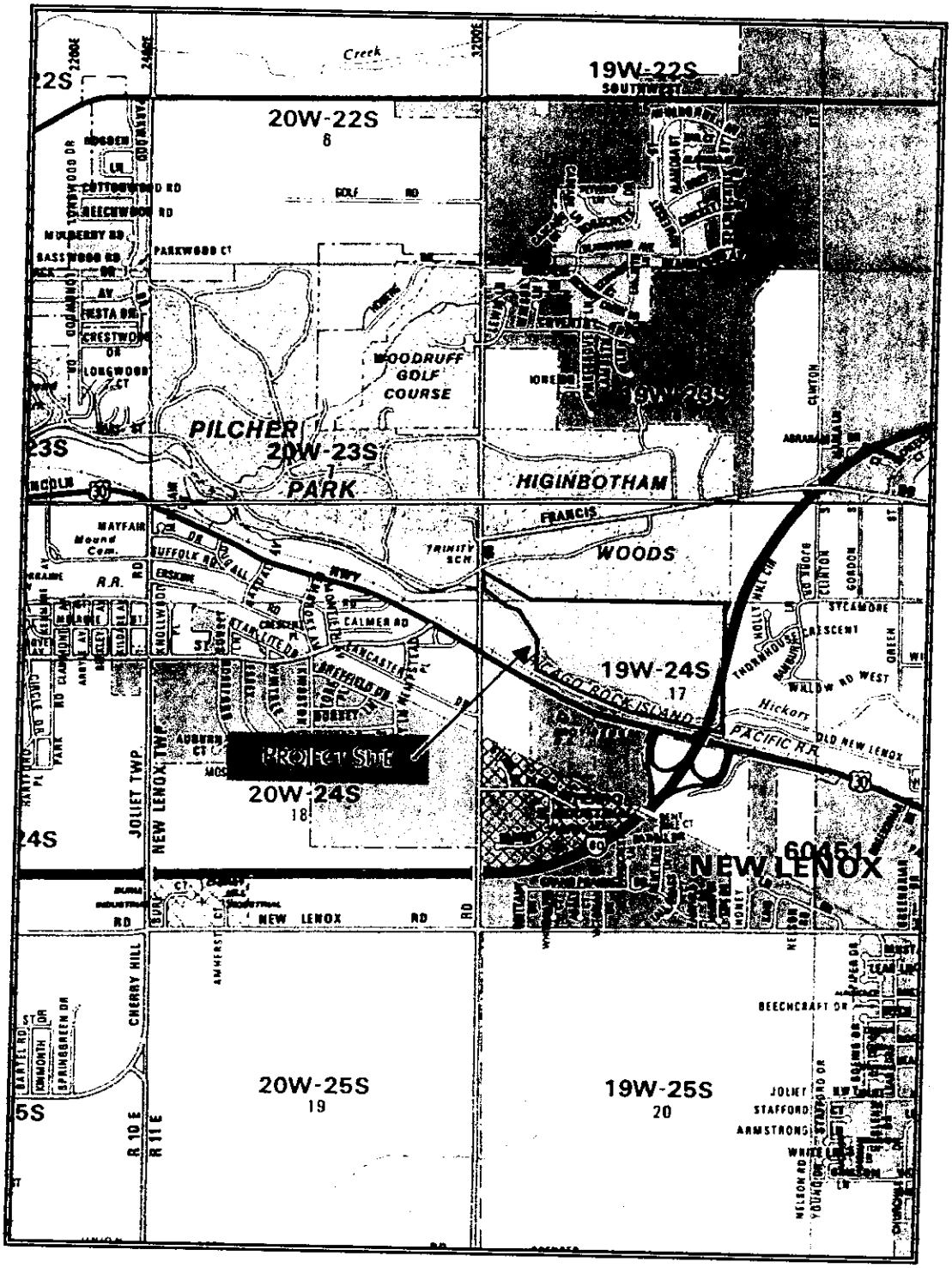


EXHIBIT A
PROJECT SITE LOCATION

N ↑
(not to scale)

A Vegetation Inventory of Potawatomi Woods
Forest Preserve District of Will County, Illinois

Kenneth Johnson
January 2002

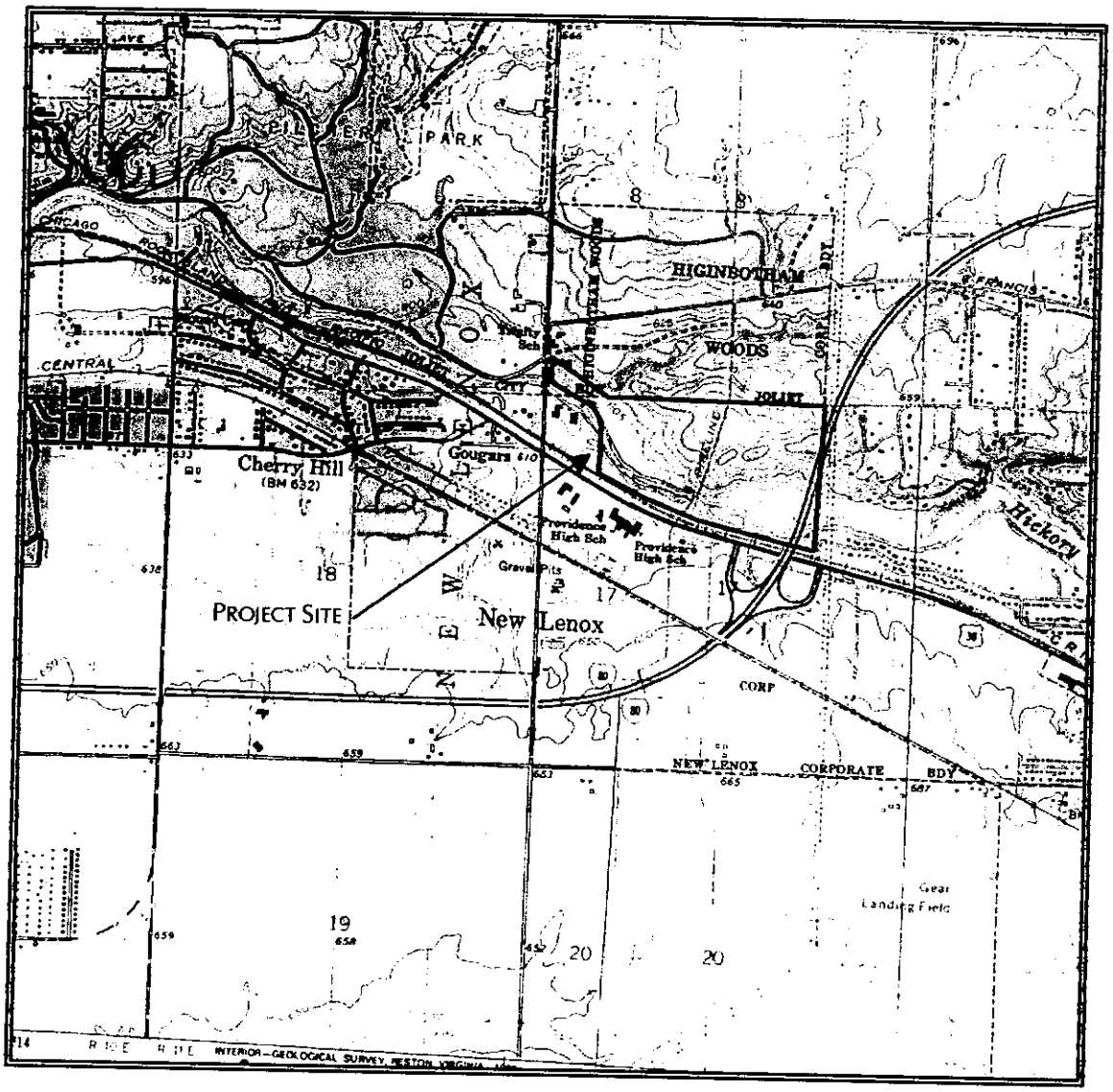
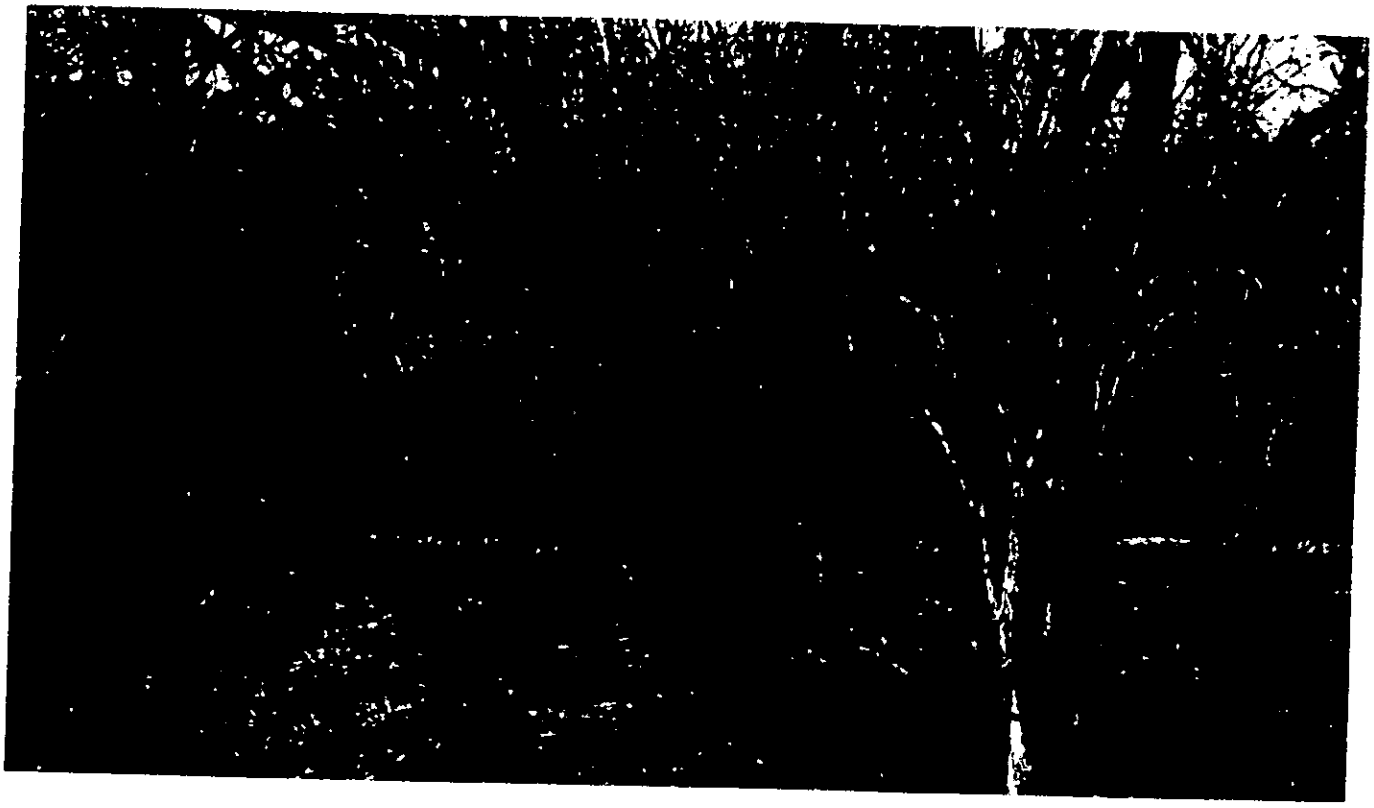


EXHIBIT B
USGS TOPOGRAPHY MAP

A Vegetation Inventory of Potawatomi Woods
Forest Preserve District of Will County, Illinois

N↑
(not to scale)

Kenneth Johnson
January 2002



Above: Mesic Upland Forest (May 2001).

Below: Wet-mesic Upland Forest (April 2001).

Above: Mesic Floodplain Forest (November 2001).

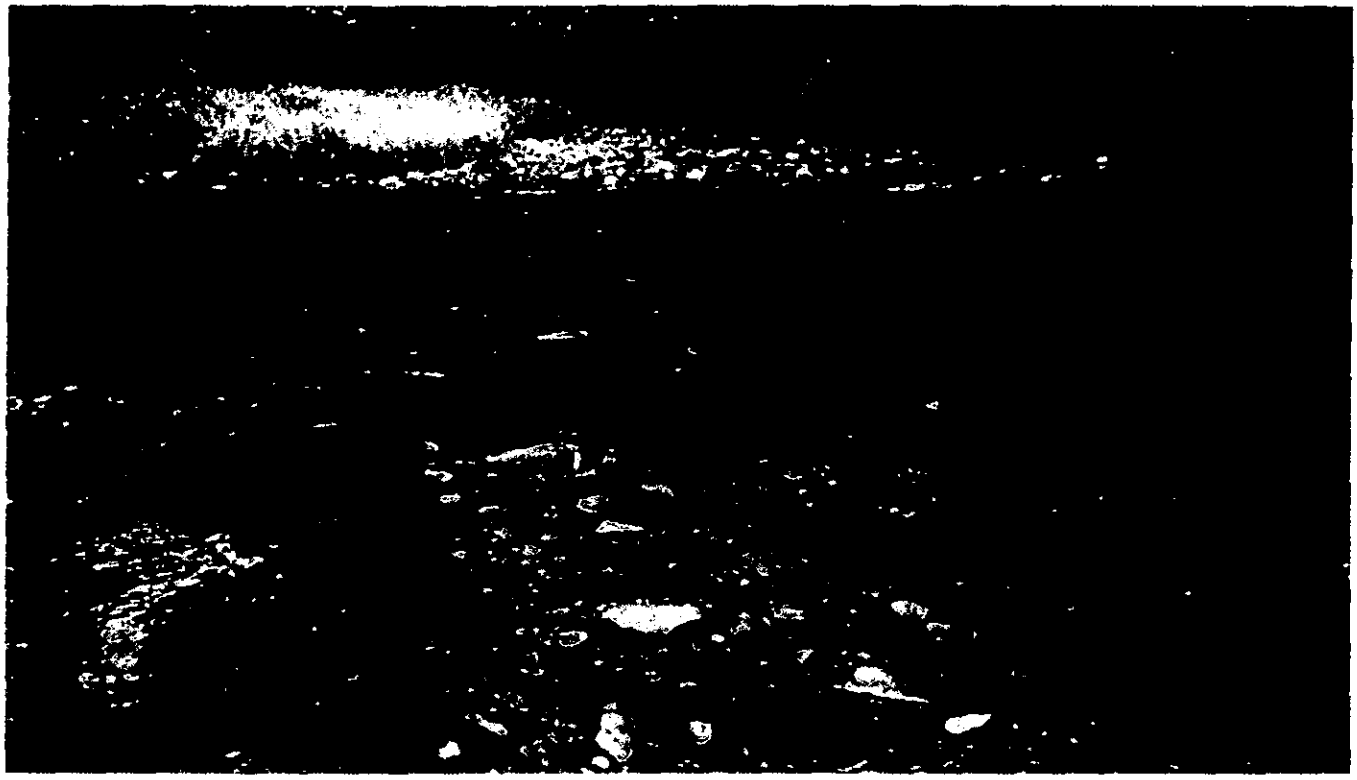
Below: Oxbow in Mesic Floodplain Forest (November 2001).

Above: Sedge Meadow (April 2001).

Below: Sedge Meadow (May 2001).

Above: Tributary Stream (April 2001).

Below: Pipeline Right-of-way (April 2001).



Above: Hickory Creek (September 2001).

Below: Hickory Creek, with rocky bottom and slender waterweed (September 2001).