



Hampton, Lenzini and Renwick, Inc.

Civil Engineers • Structural Engineers • Land Surveyors • Environmental Specialists
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April 23, 2025

Richard Babica
Public Works Director
City of Geneva
1800 South Street
Geneva, Illinois, 60134

RE: Eagle Brook 2024 Monitoring Report

Dear Mr. Babica,

INTRODUCTION

On behalf of the City of Geneva, Hampton, Lenzini and Renwick, Inc. (HLR) completed wetland management and monitoring for the ±72 acre wetland located in the Eagle Brook Development. The development complex consists of single-family homes, open space, wetlands, detention ponds and the Eagle Brook Golf Course.

Appendix A includes Figure 1 which is an overview of the site and details the locations where maintenance activities were focused. A photograph log is included as Appendix B. A vegetative analysis is summarized in this report. Full floristic quality inventory data for each area is included in Appendix C.

MONITORING AND MANAGEMENT GOALS AND ACTIVITIES

A major goal for the 2024 growing season for the Eagle Brook wetland complex included reducing the population of invasive plant species. Each area of the Eagle Brook wetland managed by HLR received several chemical treatments throughout the growing season. The main species targeted in the wetland section of Eagle Brook include reed canary grass (*Phalaris arundinacea*), purple loosestrife (*Lythrum salicaria*), and cattail (*Typha spp.*). Herbicide treatments in previous seasons have proved successful as populations of reed canary grass have been visibly reduced. Areas that have been dominated by reed canary grass in previous seasons have now filled in with high quality native plants. Common teasel (*Dipsacus sylvestris*), poison hemlock (*Conium maculatum*), and crown vetch (*Coronilla varia*) were treated in the upland areas of Eagle Brook.

Many high-quality native plants can be found in all areas of this site. Wetland plants that are abundant throughout Eagle Brook include swamp rose mallow (*Hibiscus mosheutos*), blue flag iris (*Iris virginica*), dark green bulrush (*Scirpus atrovirens*), hard stem bulrush (*Scirpus acutus*), soft stem bulrush (*Schoenoplectus tabernaemontani*), river bulrush (*Scirpus fluviatilis*), great angelica (*Angelica atropurpurea*), blue vervain (*Verbena hastata*), spotted joe pye weed (*Eutrochium maculatum*), prairie ironweed (*Vernonia fasciculata*), cardinal flower (*Lobelia cardinalis*), sneezeweed (*Helenium autumnale*), swamp milkweed (*Asclepias incarnata*), culver's root (*Veronicastrum virginicum*), mountain mint (*Pycnanthemum virginianum*), and prairie cordgrass (*Spartina pectinata*). Native upland plants include black eyed susan (*Rudbeckia hirta*), foxglove beardtongue (*Penstemon digitalis*), wild golden glow (*Rudbeckia laciniata*), purple coneflower (*Echinacea purpurea*), ohio spiderwort (*Tradescantia ohioensis*), cup plant (*Silphium perfoliatum*), wild bergamot (*Monarda fistulosa*), yellow coneflower (*Ratbida pinnata*), rattlesnake master (*Eryngium yuccifolium*), and new England aster (*Symphotrichum novae-angliae*). Native plugs were installed behind Kings Court in August 2024. The list of species installed can be found in Table 1 below. In October 2024, a total of seven native shrubs were installed behind Belter Court and Wildflower Court. The species planted include common buttonbush (*Cephalanthus occidentalis*) and New Jersey Tea (*Ceanothus americanus*). Native shrubs can provide many aesthetic and ecological benefits. Both of these species flower in the spring attracting pollinators and providing aesthetic value for the golf course and homeowners. These shrubs also provide additional wildlife habitat. A dormant mow was completed to clear any built up vegetation at the berm and along Fabyan Parkway. In April 2024, a custom seed mix was installed throughout the entire site, with a main focus behind the homes along Kings Court. Species found in this seed mix can be found in Table 2 below.

TABLE 1: CUSTOM PLUG SPECIES	
SCIENTIFIC NAME	COMMON NAME
<i>Pycnanthemum virginianum</i>	Mountain Mint
<i>Hibiscus Moscheutos</i>	Swamp Rose Mallow
<i>Lobelia cardinalis</i>	Cardinal Flower
<i>Asclepias incarnata</i>	Swamp Milkweed
<i>Vernonia fasciculata</i>	Prairie Ironweed
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed
<i>Helenium autumnale</i>	Sneezeweed
<i>Verbena hastata</i>	Blue Vervain
<i>Scirpus cyperinus</i>	Wool Grass
<i>Carex comosa</i>	Bristly Sedge
<i>Eupatorium perfoliatum</i>	Common Boneset

TABLE 2: CUSTOM SEED MIX SPECIES	
SCIENTIFIC NAME	COMMON NAME
<i>RUDBECKIA HIRTA</i>	Black-eyed Susan
<i>MONARDA FISTULOSA</i>	Wild Bergamot
<i>SILPHIUM INTEGRIFOLIUM</i>	Rosin Weed
<i>SCHIZACHYRIUM SCOPARIUM</i>	Little Bluestem
<i>RATIBIDA PINNATA</i>	Yellow Coneflower
<i>EUPATORIUM ALTISSIMUM</i>	Tall Boneset
<i>LIATRIS SPICATA</i>	Marsh Blazing Star
<i>PYCNANTHEMUM VIRGINIANUM</i>	Mountain Mint
<i>LOBELIA SIPHILITICA</i>	Great Blue Lobelia
<i>HELENIUM AUTUMNALE</i>	Sneezeweed
<i>SOLIDAGO RIGIDA</i>	Stiff Goldenrod
<i>ECHINACEA PALLIDA</i>	Pale Purple Coneflower
<i>VERBENA HASTATA</i>	Blue Vervain
<i>ASCLEPIAS INCARNATA</i>	Marsh (Red) Milkweed
<i>ASCLEPIAS TUBEROSA</i>	Butterfly Weed
<i>LOBELIA CARDINALIS</i>	Cardinal Flower

WILDLIFE

During the management activities between May 2024 and March 2025, HLR personnel observed a variety of fauna utilizing the wetland mitigation area and naturalized areas. Migratory birds and waterfowl species were observed including sandhill

crane, great blue heron, green heron, great egret, and more. Mammals, amphibians and a variety of species of dragonflies, butterflies, and moths were also observed.

VEGETATION MONITORING

A qualitative assessment of the vegetation in the wetland was conducted throughout the 2024 growing season. Using the meander search method, HLR recorded the species composition in each area.

To measure the success of maintenance activities a Floristic Quality Index (FQI) has been determined along specified areas within the site, as shown on Figure 1. From 2011 to 2017, four areas (Boardwalk, West Channel, North Channel, and Southeast Corner) were evaluated. Maintenance and monitoring at the North Channel ceased in 2018 due to growing safety concerns regarding the proximity of this area to the fairway. From 2018 to 2023, three areas (Boardwalk, West Channel, and Southeast Corner) were monitored in spring and fall each year. An FQI value is an index that rates the quality of an area based on the composition of its plant community. To obtain an FQI of an area, all plant species need to be identified during the growing season. The FQI is updated on a yearly basis. The goal is to maintain or increase the FQI at each site. An increase in the FQI shows an increase of the native quality of an area.

FQI values of 0 to 5.0 are considered severely degraded, 5.1 to 9.9 as degraded, 10 to 19.9 are considered to have some native character, and those with values greater than 20 are considered to have natural characteristics and considered to be high quality.

The vegetation data observed during the meander searches is used to establish a baseline of current ecosystem health for comparison to determine management success in the future.

Quantitative Vegetation Statistics

	2011			2012		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	20	13	10	46	31	18.9
West Channel	37	19	8.5	44	32	14.1
North Channel	27	13	5.8	57	39	16.5
Southeast Corner	28	17	11.2	43	27	11.7
Overall Average	28	15.5	8.9	47.5	32.25	15.3

	2013			2014		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	59	46	27.9	84	75	33.49
West Channel	59	39	17.5	76	54	21.09
North Channel	72	50	22.3	84	58	25.47
Southeast Corner	60	44	21.0	87	64	26.75
Overall Average	62.5	44.75	22.18	82.75	62.75	26.7

	2015			2016		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	68	53	28.57	101	77	34.07
West Channel	73	49	23.57	94	65	27.78
North Channel	90	62	28.19	100	69	28.41
Southeast Corner	58	46	26.83	74	57	29.93
Overall Average	72.25	52.5	26.79	92.25	67	30.05

	2017			2018		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	98	75	33.95	92	76	34.64
West Channel	93	46	27.25	96	75	33.37
North Channel	99	68	28.50	N/A	N/A	N/A
Southeast Corner	75	56	30.07	74	62	30.99
Overall Average	91.25	61.25	29.94	87.33	71	33

	2019			2020		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	91	76	32.46	122	101	35.62
West Channel	112	85	31.89	140	106	37.20
North Channel	N/A	N/A	N/A	N/A	N/A	N/A
Southeast Corner	74	64	31.00	97	84	34.04
Overall Average	92.33	75.00	31.78	119.67	97.00	35.62

	2021			2022		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	124	105	41.67	129	109	43.29
West Channel	137	113	46.19	120	81	34.11

North Channel	N/A	N/A	N/A	N/A	N/A	N/A
Southeast Corner	96	87	36.13	101	90	37.84
Overall Average	119	101.67	41.33	116	93.33	38.41

	2023			2024		
Community	Total Species	Native Species	Native FQI	Total Species	Native Species	Native FQI
Boardwalk	139	106	39.63	126	97	37.06
West Channel	137	92	35.66	140	96	36.13
North Channel	N/A	N/A	N/A	N/A	N/A	N/A
Southeast Corner	108	82	35.01	109	87	30.45
Overall Average	128	93.33	36.77	125	93.33	34.55

Total species, native species, and native FQI data suggests that each of the three areas as well as the site as a whole has maintained its high-quality status. This continues to confirm that the site as a whole and each area is of high quality. In fact, all areas monitored are considered high quality. With continued management, the existing vegetative quality will remain high although minor fluctuations in the current level are anticipated on a yearly basis.

2025 MANAGEMENT GOALS

For the 2025 season, HLR recommends the continuation of routine herbicide treatments during the growing season. The population of invasive, weedy, and other undesirable species has been steadily reducing, and continuing monthly herbicide treatments will allow this trend to continue. Areas that were previously dominated by reed canary grass have since filled in with high quality native plants. Supplementing this site with both seed and live plugs will assist in introducing native plants into areas where undesirable species have been removed. Live plug installation behind King’s Court will aid in the continued establishment of native species in treated areas. The Eagle Brook complex has shown significant improvement in quality during each year of maintenance.

Sincerely,



HAMPTON, LENZINI AND RENWICK, INC.

Kristin Dumoulin
 Environmental Scientist



Photo 1: West of Belter Court, facing north (06.13.2024).



Photo 2: West end of West Channel, facing east (06.13.2024).



Photo 3: High diversity of native plant species in southeast corner (06.13.2024)



Photo 4: Abundance of native species such as wild bergamot behind King's Court (07.09.2024).



Photo 5: Large population of Swamp Rose Mallow along the boardwalk behind Belter Court (07.09.2024).



Photo 6: Pops of color from Purple Coneflower and Yellow Coneflower along the west channel (07.09.2024).



Photo 7: Black-eyed Susan and purple joe-pye weed flourishing in the wetland behind King's Court (08.01.2024).



Photo 8: Live plug installation behind King's Court (08.01.2024)



Photo 9: Behind King's Court facing southwest (08.01.2024)



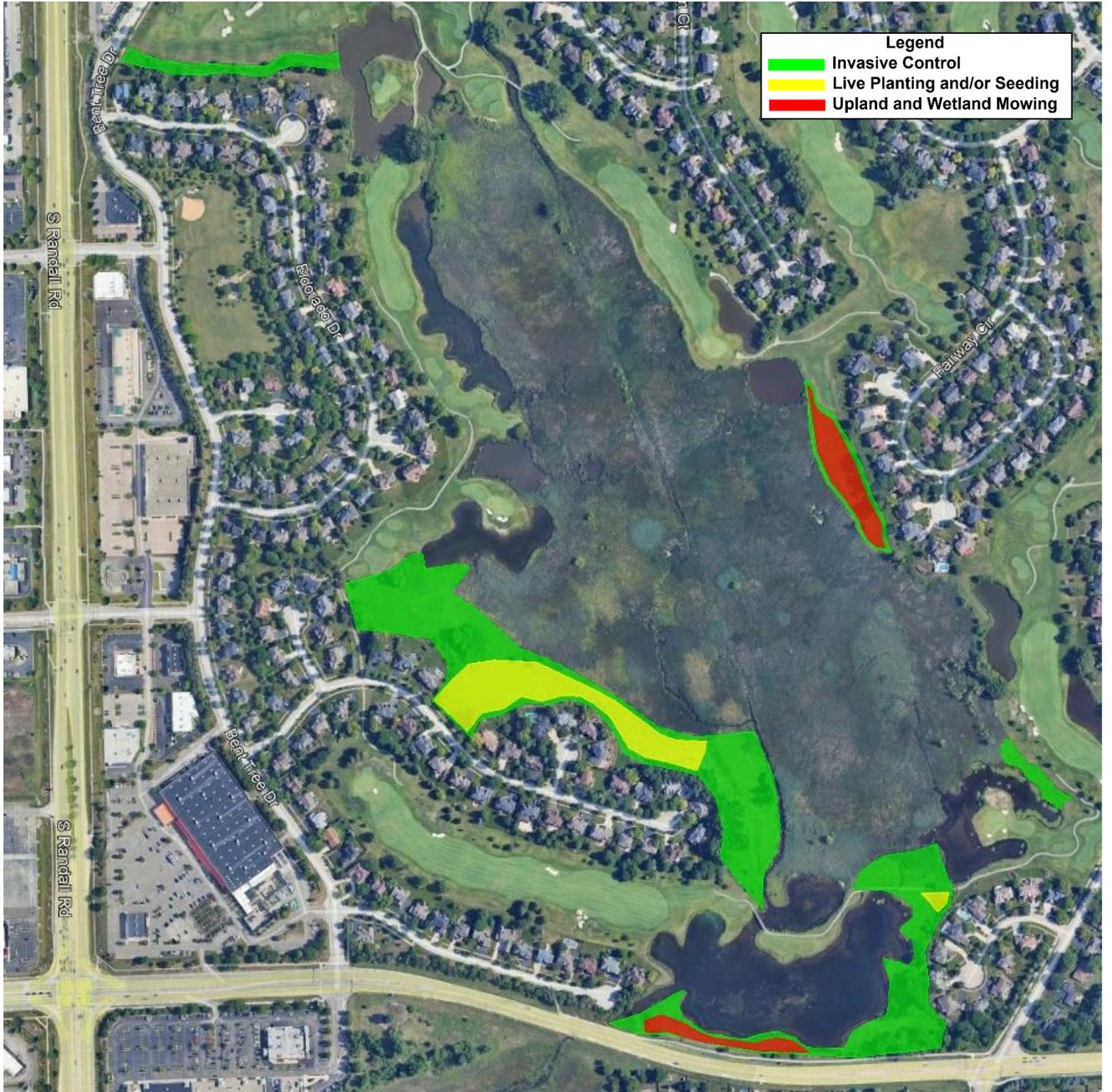
Photo 10: Abundance of sneezeweed along the west channel (09.10.2024)



Photo 11: Installation of native shrubs behind King's Court (10.21.2024)



Photo 12: Installation of native shrubs along the boardwalk behind Belter Court (10.21.2024).



SITE: Eagle Brook
LOCALE: Boardwalk
BY:
NOTES:

CONSERVATISM-BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	3.76	SPECIES RICHNESS (ALL)	126
MEAN C (ALL SPECIES)	2.90	SPECIES RICHNESS (NATIVE)	97
MEAN C (NATIVE TREES)	3.50	% NON-NATIVE WET INDICATOR (ALL)	0.23
MEAN C (NATIVE SHRUBS)	2.67	WET INDICATOR (NATIVE)	-0.33
MEAN C (HERBACEOUS)	3.84	% HYDROPHYTE (MIDWEST)	0.66
FQAI (NATIVE SPECIES)	37.06	% NATIVE PERENNIAL	0.65
FQAI (ALL SPECIES)	32.52	% NATIVE ANNUAL	0.10
ADJUSTED FQAI	33.02	% ANNUAL	0.13
% C VALUE 0	0.36	% PERENNIAL	0.78
% C VALUE 1-3	0.25		
% C VALUE 4-6	0.27		
% C VALUE 7-10	0.13		

SPECIES ACRONYM	SPECIES NAME (NWPL/MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ABUTHE	Abutilon theophrasti	ABUTILON THEOPHRAST I	Velvetleaf	0	FACU	FACU	1 Forb	Annual	Adventive
ACOAME	Acorus americanus	americanus	Several-Vein Sweetflag	9	OBL	OBL	-2 Forb	Perennial	Native
AGATEN	Agalinis tenuifolia	tenuifolia	Slender-Leaf False Foxglove	3	FACW	FACW	-1 Forb	Annual	Native
ALISUB	Alisma subcordatum	Alisma subcordatum	American Water-Plantain	3	OBL	OBL	-2 Forb	Perennial	Native
ALLPET	Alliaria petiolata	ALLIARIA PETIOLATA	Garlic-Mustard	0	FAC	FACU	0 Forb	Biennial	Adventive
AMBART	Ambrosia artemisiifolia	artemisiifolia	Annual Ragweed	0	FACU	FACU	1 Forb	Annual	Native
ANDGER	Andropogon gerardii	gerardii	Big Bluestem	5	FAC	FACU	0 Grass	Perennial	Native
ANGATR	Angelica atropurpurea	atropurpurea	Purple-Stem Angelica	7	OBL	OBL	-2 Forb	Perennial	Native
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0 Forb	Perennial	Native
ARCLAP	Arctium lappa	ARCTIUM LAPPA	Great Burdock	0	UPL	UPL	2 Forb	Biennial	Adventive
ARCMIN	Arctium minus	ARCTIUM MINUS	Lesser Burdock	0	FACU	FACU	1 Forb	Biennial	Adventive
ASCINC	Asclepias incarnata	Asclepias incarnata	Swamp Milkweed	3	OBL	OBL	-2 Forb	Perennial	Native
ASCSYR	Asclepias syriaca	Asclepias syriaca	Common Milkweed	0	FACU	UPL	1 Forb	Perennial	Native
BARVER	Barbarea verna	BARBAREA VERNA	Early Winter Cress	0	UPL	UPL	2 Forb	Biennial	Adventive
BIDCOM	Bidens tripartita	Bidens comosa; Bidens connata	Three-Lobe Beggarticks	3	OBL	FACW	-2 Forb	Annual	Native
BOECYL	Boehmeria cylindrica	Boehmeria cylindrica	Small-Spike False Nettle	5	OBL	OBL	-2 Forb	Perennial	Native
CXANNE	Carex annectens	Carex annectens	Yellow-Fruit Sedge	3	FACW	FACW	-1 Sedge	Perennial	Native
CXGRAN	Carex granularis	Carex granularis	Limestone-Meadow Sedge	3	FACW	FACW	-1 Sedge	Perennial	Native
CXLCU	Carex lacustris	Carex lacustris	Lakebank Sedge	5	OBL	OBL	-2 Sedge	Perennial	Native
CXLURI	Carex lurida	Carex lurida	Sallow Sedge	5	OBL	OBL	-2 Sedge	Perennial	Native
CXMOLE	Carex molesta	Carex molesta	Troublesome Sedge	2	FAC	FAC	0 Sedge	Perennial	Native
CXSTIP	Carex stipata	Carex stipata	Stalk-Grain Sedge	4	OBL	OBL	-2 Sedge	Perennial	Native

CHEALB	Chenopodium album	CHENOPODIUM ALBUM; Chenopodium missouriense	Lamb's-Quarters	0 FACU	FACU	1 Forb	Annual	Adventive
CIRARV	Cirsium arvense	CIRSIIUM ARVENSE	Canadian Thistle	0 FACU	FACU	1 Forb	Perennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIIUM VULGARE	Bull Thistle	0 FACU	FACU	1 Forb	Biennial	Adventive
CONARV	Convolvulus arvensis	CONVOLVULUS ARVENSIS	Field Bindweed	0 UPL	UPL	2 Forb	Perennial	Adventive
CORALB	Cornus alba	Cornus stolonifera; Cornus baileyi; Cornus sericea	Red Osier	5 FACW	FACW	-1 Shrub	Perennial	Native
CORRAC	Cornus racemosa	Cornus racemosa	Gray Dogwood	1 FAC	FAC	0 Shrub	Perennial	Native
CYPFLA	Cyperus flavescens	Cyperus flavescens Cyperus poaeformis	Yellow Flat Sedge	9 OBL	OBL	-2 Sedge	Annual	Native
CYPENG	Cyperus odoratus	Cyperus engelmannii; Cyperus ferruginescens	Rusty Flat Sedge	2 FACW	OBL	-1 Sedge	Annual	Native
DAUCAR	Daucus carota	DAUCUS CAROTA	Queen Anne's Lace	0 UPL	UPL	2 Forb	Biennial	Adventive
DIPFUL	Dipsacus fullonum	DIPSACUS SYLVESTRIS	Fuller's Teasel	0 FACU	FACU	1 Forb	Biennial	Adventive
ECHPUR	Echinacea purpurea	Echinacea purpurea	Purple Coneflower	10 UPL	UPL	2 Forb	Perennial	Native
ECHCRU	Echinochloa crus-galli	Echinochloa crus-galli	Large Barnyard Grass	0 FACW	FAC	-1 Grass	Annual	Native
ELEERY	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major; Eleocharis smallii; Eleocharis xyridiformis; Eleocharis macrostachya	Common Spike-Rush	1 OBL	OBL	-2 Sedge	Perennial	Native
ELYCAN	Elymus canadensis	Elymus canadensis	Nodding Wild Rye	4 FACU	FACU	1 Grass	Perennial	Native
EPICOL	Epilobium coloratum	Epilobium coloratum	Purple-Leaf Willowherb	3 OBL	OBL	-2 Forb	Perennial	Native
ERIANN	Erigeron annuus	Erigeron annuus	Eastern Daisy Fleabane	0 FACU	FACU	1 Forb	Biennial	Native
ERICAN	Erigeron canadensis	Erigeron canadensis	Canadian Horseweed	0 FACU	FACU	1 Forb	Annual	Native
ERYYUC	Eryngium yuccifolium	Eryngium yuccifolium	Button Eryngo	9 FAC	FAC	0 Forb	Perennial	Native
EUPALT	Eupatorium altissimum	Eupatorium altissimum	Tall Boneset	0 UPL	UPL	2 Forb	Perennial	Native
EUPPER	Eupatorium perfoliatum	Eupatorium perfoliatum	Common Boneset	4 OBL	FACW	-2 Forb	Perennial	Native
EUPSER	Eupatorium serotinum	Eupatorium serotinum	Late-Flowering Thoroughwort	0 FAC	FAC	0 Forb	Perennial	Native
EUTGRA	Euthamia graminifolia	Solidago graminifolia; Solidago graminifolia nuttallii; Euthamia nuttallii	Flat-Top Goldentop	4 FACW	FAC	-1 Forb	Perennial	Native
EUPMAC	Eutrochium maculatum	Eupatorium maculatum	Spotted Trumpetweed	5 OBL	OBL	-2 Forb	Perennial	Native
EUPPUR	Eutrochium purpureum	Eupatorium purpureum	Sweet-Scented Joe-Pye-Weed	6 FAC	FAC	0 Forb	Perennial	Native
FRAVIR	Fragaria virginiana	Fragaria virginiana	Virginia Strawberry	0 FACU	FACU	1 Forb	Perennial	Native
RHAFRA	Frangula alnus	RHAMNUS FRANGULA	Glossy False Buckthorn	0 FACW	FAC	-1 Shrub	Perennial	Adventive
FRAPEN	Fraxinus pennsylvanica	Fraxinus pennsylvanica Fraxinus subintegerrima; Fraxinus lanceolata	Green Ash	4 FACW	FACW	-1 Tree	Perennial	Native
GALAPA	Galium aparine	Galium spurium	Sticky-Willy	0 FACU	FACU	1 Forb	Annual	Native

PHYVIR	Physostegia virginiana	Physostegia virginiana	Obedient-Plant	4 FACW	FACW	-1 Forb	Perennial	Native
PHYAME	Phytolacca americana	Phytolacca americana	American Pokeweed	0 FACU	FACU	1 Forb	Perennial	Native
PILPUM	Pilea pumila	Pilea pumila	Clearweed	2 FACW	FACW	-1 Forb	Annual	Native
PONCOR	Pontederia cordata	Pontederia cordata	Pickerelweed	9 OBL	OBL	-2 Forb	Perennial	Native
POTNAT	Potamogeton natans	Potamogeton natans	Floating Pondweed	8 OBL	OBL	-2 Forb	Perennial	Native
PYCVIR	Pycnanthemum virginianum	Pycnanthemum virginianum	Virginia Mountain-Mint	5 FACW	FACW	-1 Forb	Perennial	Native
PYRCAL	Pyrus calleryana	CALLERYANA	Ornamental Pear	0 UPL	UPL	2 Tree	Perennial	Adventive
RATPIN	Ratibida pinnata	Ratibida pinnata	Yellow Coneflower	4 UPL	UPL	2 Forb	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS	Buckthorn	0 FAC	FAC	0 Shrub	Perennial	Adventive
RUDFUL	Rudbeckia fulgida	RUDBECKIA	Orange Coneflower	0 OBL	OBL	-2 Forb	Perennial	Adventive
RUDHIR	Rudbeckia hirta	FULGIDA	Orange Coneflower	0 OBL	OBL	-2 Forb	Perennial	Adventive
RUDHIR	Rudbeckia hirta	Rudbeckia hirta var. pulcherrima	Black-Eyed-Susan	1 FACU	FACU	1 Forb	Perennial	Native
RUDSUB	Rudbeckia subtomentosa	Rudbeckia subtomentosa	Black-Eyed-Susan	1 FACU	FACU	1 Forb	Perennial	Native
RUMCRI	Rumex crispus	RUMEX	Curly Dock	0 FAC	FAC	0 Forb	Perennial	Adventive
SAGLAT	Sagittaria latifolia	CRISPUS	Curly Dock	0 FAC	FAC	0 Forb	Perennial	Adventive
SALINT	Salix interior	Sagittaria latifolia	Duck-Potato	3 OBL	OBL	-2 Forb	Perennial	Native
ANDSCO	Schizachyrium scoparium	Salix interior	Sandbar Willow	2 FACW	FACW	-1 Shrub	Perennial	Native
SCHACU	Schoenoplectus acutus	Andropogon scoparius	Little False Bluestem	5 FACU	FACU	1 Grass	Perennial	Native
SCHFLU	Schoenoplectus fluviatilis	Scirpus acutus	Hard-Stem Club-Rush	5 OBL	OBL	-2 Sedge	Perennial	Native
SCHFLU	Schoenoplectus fluviatilis	Scirpus fluviatilis;	Hard-Stem Club-Rush	5 OBL	OBL	-2 Sedge	Perennial	Native
SCHFLU	Schoenoplectus fluviatilis	Bolboschoenus fluviatilis	River Club-Rush	4 OBL	OBL	-2 Sedge	Perennial	Native
SCHTAB	Schoenoplectus tabernaemontani	Scirpus validus	Soft-Stem Club-Rush	3 OBL	OBL	-2 Sedge	Perennial	Native
SCICYP	Scirpus cyperinus	Scirpus creber	Cottongrass	3 OBL	OBL	-2 Sedge	Perennial	Native
EREHIE	Senecio hieracifolius	Scirpus cyperinus	Bulrush	6 OBL	OBL	-2 Sedge	Perennial	Native
SILLAC	Silphium laciniatum	Erechtites hieracifolia	American Burnweed	0 FAC	FACU	0 Forb	Annual	Native
SOLDUL	Solanum dulcamara	Silphium	Compass-Plant	5 UPL	UPL	2 Forb	Perennial	Native
SOLCAN	Solidago canadensis	SOLANUM	Climbing Nightshade	0 FAC	FAC	0 Vine	Perennial	Adventive
ASTPTA	Solidago ptarmicoides	Solidago canadensis	Canadian Goldenrod	1 FACU	FACU	1 Forb	Perennial	Native
ASTPTA	Solidago ptarmicoides	Aster ptarmicoides;	Canadian Goldenrod	1 FACU	FACU	1 Forb	Perennial	Native
ASTPTA	Solidago ptarmicoides	Oligoneuron album	Stiff Goldenrod	10 UPL	UPL	2 Forb	Perennial	Native
SONARV	Sonchus arvensis	SONCHUS	Field Sow-Thistle	0 FACU	FACU	1 Forb	Perennial	Adventive
SONASP	Sonchus asper	SONCHUS	Spiny-Leaf Sow-Thistle	0 FACU	FACU	1 Forb	Annual	Adventive
SORNUT	Sorghastrum nutans	ASPER	Thistle	0 FACU	FACU	1 Forb	Annual	Adventive
SPAAME	Sparganium americanum	Sorghastrum nutans	Yellow Indian Grass	5 FACU	FACU	1 Grass	Perennial	Native
SPAPEC	Spartina pectinata	Sparganium americanum	American Burr-Reed	10 OBL	OBL	-2 Forb	Perennial	Native
ASTNOV	Symphyotrichum novae-angliae	Spartina pectinata	Freshwater Cord Grass	4 FACW	FACW	-1 Grass	Perennial	Native
ASTPIL	Symphyotrichum pilosum	Aster novae-angliae	New England American-Aster	3 FACW	FACW	-1 Forb	Perennial	Native
TYPANG	Typha angustifolia	Aster pilosus	American-Aster	0 FACU	FACU	1 Forb	Perennial	Native
URTPIO	Urtica dioica ssp. gracilis	TYPHA	Narrow-Leaf Cat-Tail	0 OBL	OBL	-2 Forb	Perennial	Adventive
VERTHA	Verbascum thapsus	ANGUSTIFOLIA	Narrow-Leaf Cat-Tail	0 OBL	OBL	-2 Forb	Perennial	Adventive
VERHAS	Verbena hastata	URTICA	Tall Nettle	1 FACW	FAC	-1 Forb	Perennial	Native
VERSTR	Verbena stricta	URTICA	Tall Nettle	1 FACW	FAC	-1 Forb	Perennial	Native
VERURT	Verbena urticifolia	VERBASCUM	Woolly Mullein	0 UPL	UPL	2 Forb	Biennial	Adventive
VERURT	Verbena urticifolia	VERBENA	Simpler's-Joy	4 FACW	FACW	-1 Forb	Perennial	Native
VERURT	Verbena urticifolia	VERBENA	Hoary Vervain	4 UPL	UPL	2 Forb	Perennial	Native
VERURT	Verbena urticifolia	URTICIFOLIA	Hoary Vervain	4 UPL	UPL	2 Forb	Perennial	Native
VERURT	Verbena urticifolia	var. leiocarpa	White Vervain	2 FAC	FAC	0 Forb	Perennial	Native

VERFAS	Vernonia fasciculata	Vernonia fasciculata	Prairie Ironweed	8 FACW	FACW	-1 Forb	Perennial	Native
VERVIR	Veronicastrum virginicum	Veronicastrum virginicum	Culver's-Root	8 FAC	FAC	0 Forb	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. sylvatica	River-Bank Grape	1 FACW	FAC	-1 Vine	Perennial	Native
XANSTR	Xanthium strumarium	Xanthium strumarium var. canadense;		0 FAC	FAC	0 Forb	Annual	Native
ZIZAUR	Zizia aurea	Zizia aurea	Golden Alexanders	5 FAC	FAC	0 Forb	Perennial	Native

SITE: Eagle Brook
LOCALE: Pat's Corner
BY:
NOTES:

CONSERVATISM-BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	3.26	SPECIES RICHNESS (ALL)	109
MEAN C (ALL SPECIES)	2.61	SPECIES RICHNESS (NATIVE)	87
MEAN C (NATIVE TREES)	3.33	% NON-NATIVE WET INDICATOR (ALL)	0.20
MEAN C (NATIVE SHRUBS)	5.33	WET INDICATOR (NATIVE)	-0.31
MEAN C (NATIVE HERBACEOUS)	3.19	% HYDROPHYTE (MIDWEST)	-0.46
FQAI (NATIVE SPECIES)	30.45	% NATIVE PERENNIAL	0.69
FQAI (ALL SPECIES)	27.20	% NATIVE ANNUAL	0.70
ADJUSTED FQAI	29.16	% ANNUAL	0.08
% C VALUE 0	0.33	% PERENNIAL	0.09
% C VALUE 1-3	0.28		0.84
% C VALUE 4-6	0.31		
% C VALUE 7-10	0.07		

SPECIES ACRONYM	SPECIES NAME (NWPL/ MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ACESAI	Acer saccharinum	saccharinum	Silver Maple		1 FACW	FACW	-1 Tree	Perennial	Native
ALISUB	Alisma subcordatum	subcordatum	American Water-Plantain		3 OBL	OBL	-2 Forb	Perennial	Native
AMBART	Ambrosia artemisiifolia	artemisiifolia	Annual Ragweed		0 FACU	FACU	1 Forb	Annual	Native
ANDGER	Andropogon gerardii	Andropogon gerardii	Big Bluestem		5 FAC	FACU	0 Grass	Perennial	Native
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp		2 FAC	FAC	0 Forb	Perennial	Native
ASCINC	Asclepias incarnata	incarnata	Swamp Milkweed		3 OBL	OBL	-2 Forb	Perennial	Native
ASCSYR	Asclepias syriaca	Asclepias syriaca	Common Milkweed		0 FACU	UPL	1 Forb	Perennial	Native
ASCVER	Asclepias verticillata	Asclepias verticillata	Whorled Milkweed		1 FACU	UPL	1 Forb	Perennial	Native
BARVER	Barbarea verna	BARBAREA VERNA	Early Winter Cress		0 UPL	UPL	2 Forb	Biennial	Adventive
BIDFRO	Bidens frondosa	frondosa	Devil's-Pitchfork		1 FACW	FACW	-1 Forb	Annual	Native
CXANNE	Carex annectens	Carex annectens	Yellow-Fruit Sedge		3 FACW	FACW	-1 Sedge	Perennial	Native
CXCRIS	Carex cristatella	Carex cristatella	Crested Sedge		4 FACW	FACW	-1 Sedge	Perennial	Native
CXMOLE	Carex molesta	Carex molesta	Troublesome Sedge		2 FAC	FAC	0 Sedge	Perennial	Native
CXSTIP	Carex stipata	Carex stipata	Stalk-Grain Sedge		4 OBL	OBL	-2 Sedge	Perennial	Native
CXTRIB	Carex tribuloides	Carex tribuloides	Blunt Broom Sedge		7 OBL	FACW	-2 Sedge	Perennial	Native
CXVULP	Carex vulpinoidea	Carex vulpinoidea	Common Fox Sedge		2 FACW	OBL	-1 Sedge	Perennial	Native
CASFAS	Chamaecrista fasciculata	Cassia fasciculata; Cassia fasciculata var. robusta	Sleepingplant		4 FACU	FACU	1 Forb	Annual	Native
CIRARV	Cirsium arvense	CIRSIMUM ARVENSE	Canadian Thistle		0 FACU	FACU	1 Forb	Perennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIMUM VULGARE	Bull Thistle		0 FACU	FACU	1 Forb	Biennial	Adventive
CORALB	Cornus alba	Cornus stolonifera; Cornus baileyi; Cornus sericea	Red Osier		5 FACW	FACW	-1 Shrub	Perennial	Native

CORRAC	Cornus racemosa	Cornus racemosa	Gray Dogwood	1 FAC	FAC	0 Shrub	Perennial	Native
CYPESC	Cyperus esculentus	Cyperus esculentus	Chufa	0 FACW	FACW	-1 Sedge	Perennial	Native
CYPSTR	Cyperus strigosus	Cyperus strigosus	Straw-Color Flat Sedge	1 FACW	FACW	-1 Sedge	Perennial	Native
DAUCAR	Daucus carota	CAROTA	Queen Anne's Lace	0 UPL	UPL	2 Forb	Biennial	Adventive
DESILI	Desmanthus illinoensis	Desmanthus illinoensis	Prairie Bundle-Flower	3 FACU	FACU	1 Forb	Perennial	Native
ELEACI	Eleocharis acicularis	Eleocharis acicularis	Needle Spike-Rush	3 OBL	OBL	-2 Sedge	Perennial	Native
		Eleocharis erythropoda; Eleocharis palustris major; Eleocharis smallii; Eleocharis xyridiformis; Eleocharis macrostachya	Common Spike-Rush	1 OBL	OBL	-2 Sedge	Perennial	Native
ELEERY	Eleocharis palustris	Epilobium coloratum	Purple-Leaf Willowherb	3 OBL	OBL	-2 Forb	Perennial	Native
EPICOL	Epilobium coloratum	Erigeron annuus	Eastern Daisy Fleabane	0 FACU	FACU	1 Forb	Biennial	Native
ERIANN	Erigeron annuus	Conyza canadensis	Canadian Horseweed	0 FACU	FACU	1 Forb	Annual	Native
ERICAN	Erigeron canadensis	Eryngium yuccifolium	Button Eryngo	9 FAC	FAC	0 Forb	Perennial	Native
ERYYUC	Eryngium yuccifolium	Eupatorium altissimum	Tall Boneset	0 UPL	UPL	2 Forb	Perennial	Native
EUPALT	Eupatorium altissimum	Eupatorium perfoliatum	Common Boneset	4 OBL	FACW	-2 Forb	Perennial	Native
EUPPER	Eupatorium perfoliatum	Eupatorium serotinum	Late-Flowering Thoroughwort	0 FAC	FAC	0 Forb	Perennial	Native
EUPSER	Eupatorium serotinum	Eutrochium maculatum	Spotted Trumpetweed	5 OBL	OBL	-2 Forb	Perennial	Native
EUPMAC	Eutrochium maculatum	Eupatorium purpureum	Sweet-Scented Joe-Pye-Weed	6 FAC	FAC	0 Forb	Perennial	Native
EUPPUR	Eupatorium purpureum	Fragaria virginiana	Virginia Strawberry	0 FACU	FACU	1 Forb	Perennial	Native
FRAVIR	Fragaria virginiana	Fraxinus pennsylvanica						
		Fraxinus pennsylvanica subintegerrima; Fraxinus lanceolata	Green Ash	4 FACW	FACW	-1 Tree	Perennial	Native
FRAPEN	Fraxinus pennsylvanica	Galium aparine	Sticky-Willy	0 FACU	FACU	1 Forb	Annual	Native
GALAPA	Galium aparine	Galium palustre	Common Marsh Bedstraw	10 OBL	OBL	-2 Forb	Perennial	Native
GALPAL	Galium palustre	Geum aleppicum	Yellow Avens	3 FACW	FAC	-1 Forb	Perennial	Native
GEUALE	Geum aleppicum	Geum canadense	White Avens	1 FAC	FAC	0 Forb	Perennial	Native
GEUCAN	Geum canadense	Helenium autumnale var. canaliculatum	Fall Sneezeweed	5 FACW	FACW	-1 Forb	Perennial	Native
HELAUT	Helenium autumnale	Helianthus grosseserratus	Saw-Tooth Sunflower	4 FACW	FACW	-1 Forb	Perennial	Native
HELGRO	Helianthus grosseserratus	HELIANTHUS MAXIMILIANI I	Maximilian's Sunflower	0 UPL	UPL	2 Forb	Perennial	Adventive
HELMAX	Helianthus maximilianii	Heliopsis helianthoides	Smooth Oxeye	7 FACU	FACU	1 Forb	Perennial	Native
HELHEL	Heliopsis helianthoides	Hibiscus moscheutos	Crimson-Eyed Rose-Mallow	7 OBL	OBL	-2 Forb	Perennial	Native
HIBMOS	Hibiscus moscheutos	HORDEUM JUBATUM	Fox-Tail Barley	0 FAC	FAC	0 Grass	Perennial	Native
HORJUB	Hordeum jubatum	Impatiens capensis	Spotted Touch-Me-Not	3 FACW	FACW	-1 Forb	Annual	Native
IMPCAP	Impatiens capensis	Iris virginica var. shrevei	Virginia Blueflag	5 OBL	OBL	-2 Forb	Perennial	Native
IRIVIR	Iris virginica var. shrevei	Juncus effusus ssp. solutus	Lamp Rush	5 OBL	OBL	-2 Forb	Perennial	Native
JUNEFF	Juncus effusus ssp. solutus	Juncus tenuis	Lesser Poverty Rush	0 FAC	FAC	0 Forb	Perennial	Native
JUNTEN	Juncus tenuis	Juncus torreyi	Torrey's Rush	2 FACW	FACW	-1 Forb	Perennial	Native
JUNTOR	Juncus torreyi	LACTUCA SERRIOLA	Prickly Lettuce	0 FACU	FACU	1 Forb	Biennial	Adventive
LACSER	Lactuca serriola							

LEEORY	Leersia oryzoides	Leersia oryzoides	Rice Cut Grass	3 OBL	OBL	-2 Grass	Perennial	Native
LEPCOG	Leptoloma cognatum	Leptoloma cognatum	Fall Witch Grass	1 UPL	UPL	2 Grass	Perennial	Native
LYCAME	Lycopus americanus	Lycopus americanus	Cut-Leaf Water-Horehound	4 OBL	OBL	-2 Forb	Perennial	Native
LYCEUR	Lycopus europaeus	LYCOPUS LYTHRUM	Gypsywort	0 OBL	OBL	-2 Forb	Perennial	Adventive
LYTSAL	Lythrum salicaria	SALICARIA MELILOTUS	Purple Loosestrife	0 OBL	OBL	-2 Forb	Perennial	Adventive
MELALB	Melilotus albus	ALBA	White Sweet-Clover	0 UPL	UPL	2 Forb	Biennial	Adventive
MENAQU	Mentha aquatica	MENTHA AQUATICA VAR. CITRATA	Water Mint	0 OBL	OBL	-2 Forb	Perennial	Adventive
MENARV	Mentha arvensis	Mentha arvensis villosa; Mentha arvensis subsp. parietariaefolia; Mentha canadensis	American Wild Mint	5 FACW	FACW	-1 Forb	Perennial	Native
MIMRIN	Mimulus ringens	Mimulus ringens	Allegheny Monkey-Flower	4 OBL	OBL	-2 Forb	Perennial	Native
MONFIS	Monarda fistulosa	Monarda fistulosa	Oswego-Tea	4 FACU	FACU	1 Forb	Perennial	Native
MORALB	Morus alba	MORUS ALBA VAR. TATARICA	White Mulberry	0 FAC	FACU	0 Tree	Perennial	Adventive
NYMODO	Nymphaea odorata	Nymphaea tuberosa	American White Water-Lily	5 OBL	OBL	-2 Forb	Perennial	Native
OENBIE	Oenothera biennis	Oenothera biennis	King's-Cureall	0 FACU	FACU	1 Forb	Biennial	Native
PANVIR	Panicum virgatum	Panicum virgatum	Wand Panic Grass	3 FAC	FAC	0 Grass	Perennial	Native
PENDIG	Penstemon digitalis	Penstemon digitalis	Foxglove	4 FAC	FAC	0 Forb	Perennial	Native
PERHYR	Persicaria hydropiper	Persicaria hydropiper	Beardtongue	4 FAC	FAC	0 Forb	Perennial	Native
PERHYR	Phalaris arundinacea	PHALARIS ARUNDINACEA	Mild Water-Pepper	2 OBL	OBL	-2 Forb	Annual	Native
PHAARU	Phragmites australis ssp. americanus	Phragmites australis ssp. americanus	Reed Canary Grass	0 FACW	FACW	-1 Grass	Perennial	Adventive
PHRAME	Physalis longifolia	Physalis subglabrata	Common Reed Smooth Ground Cherry	3 FACW	FACW	-1 Grass	Perennial	Native
PHYSUB	Physostegia virginiana	Physostegia virginiana	Cherry	0 UPL	UPL	2 Forb	Perennial	Native
PHYVIR	Poa pratensis	POA PRATENSIS	Obedient-Plant Kentucky Blue Grass	4 FACW	FACW	-1 Forb	Perennial	Native
POAPRA	Pycnanthemum virginianum	Pycnanthemum virginianum	Grass	0 FAC	FACU	0 Grass	Perennial	Adventive
PYCVIR	Pyrus calleryana	Pyrus calleryana	Virginia Mountain-Mint	5 FACW	FACW	-1 Forb	Perennial	Native
PYRCAL	Ranunculus abortivus	RANUNCULUS ABORTIVUS	Ornamental Pear	0 UPL	UPL	2 Tree	Perennial	Adventive
RANABO	Ranunculus abortivus	Ranunculus abortivus	Kidney-Leaf Buttercup	1 FACW	FAC	-1 Forb	Annual	Native
RANREP	Ranunculus repens	RANUNCULUS REPENS VAR. PLENIFLORUS	Creeping Buttercup	0 FAC	FAC	0 Forb	Perennial	Adventive
RATPIN	Ratibida pinnata	Ratibida pinnata	Yellow Coneflower	4 UPL	UPL	2 Forb	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	European Buckthorn	0 FAC	FAC	0 Shrub	Perennial	Adventive
RIBHIR	Ribes hirtellum	Ribes hirtellum var. calcicola	Hairy-Stem Gooseberry	10 FACW	FACW	-1 Shrub	Perennial	Native
RUDHIR	Rudbeckia hirta	Rudbeckia hirta var. pulcherrima	Black-Eyed-Susan	1 FACU	FACU	1 Forb	Perennial	Native
RUDSUB	Rudbeckia subtomentosa	Rudbeckia subtomentosa	Sweet Coneflower	8 FACU	FACU	1 Forb	Perennial	Native
RUMCRI	Rumex crispus	RUMEX CRISPUS	Curly Dock	0 FAC	FAC	0 Forb	Perennial	Adventive
SALNIG	Salix nigra	Salix nigra	Black Willow	5 OBL	OBL	-2 Tree	Perennial	Native
ANDSCO	Schizachyrium scoparium	Andropogon scoparium	Little False Bluestem	5 FACU	FACU	1 Grass	Perennial	Native
SCHACU	Schoenoplectus acutus	Scirpus acutus	Hard-Stem Club-Rush	5 OBL	OBL	-2 Sedge	Perennial	Native

SCHFLU	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	River Club-Rush	4 OBL	OBL	-2 Sedge	Perennial	Native
SCIATV	Scirpus atrovirens	Scirpus atrovirens	Dark-Green Bulrush	4 OBL	OBL	-2 Sedge	Perennial	Native
EREHIE	Senecio hieraciifolius	Erechtites hieracifolia	American Burnweed	0 FAC	FACU	0 Forb	Annual	Native
SETGLA	Setaria pumila	SETARIA GLAUCA	Yellow Bristle Grass	0 FAC	FAC	0 Grass	Annual	Adventive
SILPER	Silphium perfoliatum	Silphium perfoliatum	Cup-Plant	5 FACW	FACW	-1 Forb	Perennial	Native
SILTER	Silphium terebinthinaceum	Silphium terebinthinac eum	Prairie Dock	5 FAC	FAC	0 Forb	Perennial	Native
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0 FAC	FAC	0 Vine	Perennial	Adventive
SOLCAN	Solidago canadensis	Solidago canadensis	Canadian Goldenrod	1 FACU	FACU	1 Forb	Perennial	Native
SOLJUN	Solidago juncea	Solidago juncea	Early Goldenrod	3 UPL	UPL	2 Forb	Perennial	Native
SONARV	Sonchus arvensis	SONCHUS ARVENSIS	Field Sow-Thistle	0 FACU	FACU	1 Forb	Perennial	Adventive
SORNUT	Sorghastrum nutans	Sorghastrum nutans	Yellow Indian Grass	5 FACU	FACU	1 Grass	Perennial	Native
SPAPEC	Spartina pectinata	Spartina pectinata	Freshwater Cord Grass	4 FACW	FACW	-1 Grass	Perennial	Native
ASTNOV	Symphotrichum novae-angliae	Aster novae- angliae	New England American-Aster	3 FACW	FACW	-1 Forb	Perennial	Native
TAROFF	Taraxacum officinale	TARAXACUM OFFICINALE	Common Dandelion	0 FACU	FACU	1 Forb	Perennial	Adventive
TRAOHI	Tradescantia ohiensis	Tradescantia ohiensis	Bluejacket	3 FACU	FACU	1 Forb	Perennial	Native
TYPANG	Typha angustifolia	TYPHA ANGUSTIFOLI A	Narrow-Leaf Cat- Tail	0 OBL	OBL	-2 Forb	Perennial	Adventive
URTDIO	Urtica dioica ssp. gracilis	Urtica procera; Urtica gracilis	Tall Nettle	1 FACW	FAC	-1 Forb	Perennial	Native
VERHAS	Verbena hastata	Verbena hastata	Simpler's-Joy	4 FACW	FACW	-1 Forb	Perennial	Native
VERSTR	Verbena stricta	Verbena stricta	Hoary Vervain	4 UPL	UPL	2 Forb	Perennial	Native
VERFAS	Vernonia fasciculata	Vernonia fasciculata	Prairie Ironweed	8 FACW	FACW	-1 Forb	Perennial	Native
ZIZAUR	Zizia aurea	Zizia aurea	Golden Alexanders	5 FAC	FAC	0 Forb	Perennial	Native

SITE: Eagle Brook
LOCALE: West Channel
BY:
NOTES:

CONSERVATISM-BASED METRICS		ADDITIONAL METRICS	
MEAN C (NATIVE SPECIES)	3.69	SPECIES RICHNESS (ALL)	140
MEAN C (ALL SPECIES)	2.53	SPECIES RICHNESS (NATIVE)	96
MEAN C (NATIVE TREES)	1.50	% NON-NATIVE WET INDICATOR (ALL)	0.31
MEAN C (NATIVE SHRUBS)	4.75	WET INDICATOR (NATIVE)	-0.03
MEAN C (NATIVE HERBACEOUS)	3.78	% HYDROPHYTE (MIDWEST)	-0.42
FQAI (NATIVE SPECIES)	36.13	% NATIVE PERENNIAL	0.59
FQAI (ALL SPECIES)	29.92	% NATIVE ANNUAL	0.09
ADJUSTED FQAI	30.54	% ANNUAL	0.19
% C VALUE 0	0.44	% PERENNIAL	0.74
% C VALUE 1-3	0.21		
% C VALUE 4-6	0.22		
% C VALUE 7-10	0.13		

SPECIES ACRONYM	SPECIES NAME (NWPL/MOHLENBROCK)	SPECIES (SYNONYM)	COMMON NAME	C VALUE	MIDWEST WET INDICATOR	NC-NE WET INDICATOR	WET INDICATOR (NUMERIC)	HABIT	DURATION	NATIVITY
ABUTHE	Abutilon theophrasti	ABUTILON THEOPHRAST I	Velvetleaf	0	FACU	FACU	1	Forb	Annual	Adventive
ACESAI	Acer saccharinum	saccharinum	Silver Maple	1	FACW	FACW	-1	Tree	Perennial	Native
ACOAME	Acorus americanus	americanus	Sweetflag	9	OBL	OBL	-2	Forb	Perennial	Native
ALISUB	Alisma subcordatum	Alisma subcordatum	American Water-Plantain	3	OBL	OBL	-2	Forb	Perennial	Native
ALLPET	Alliaria petiolata	PETIOLATA ALNUS	Garlic-Mustard	0	FAC	FACU	0	Forb	Biennial	Adventive
ALNGLU	Alnus glutinosa	GLUTINOSA	European Alder	0	FACW	FACW	-1	Tree	Perennial	Adventive
AMBTRI	Ambrosia trifida	Ambrosia trifida	Great Ragweed	0	FAC	FAC	0	Forb	Annual	Native
ANDGER	Andropogon gerardii	Andropogon gerardii	Big Bluestem	5	FAC	FACU	0	Grass	Perennial	Native
ANGATR	Angelica atropurpurea	atropurpurea	Purple-Stem Angelica	7	OBL	OBL	-2	Forb	Perennial	Native
APOCAN	Apocynum cannabinum	Apocynum sibiricum	Indian-Hemp	2	FAC	FAC	0	Forb	Perennial	Native
ASCINC	Asclepias incarnata	Asclepias incarnata	Swamp Milkweed	3	OBL	OBL	-2	Forb	Perennial	Native
ASCSYR	Asclepias syriaca	Asclepias syriaca	Common Milkweed	0	FACU	UPL	1	Forb	Perennial	Native
ASCTUB	Asclepias tuberosa	Asclepias tuberosa	Butterfly-Weed	8	UPL	UPL	2	Forb	Perennial	Native
ATRPRO	Atriplex prostrata	ATRIPLEX PROSTRATA	Hastate Orache	0	FAC	FAC	0	Forb	Annual	Adventive
BARVER	Barbarea verna	VERNA BARBAREA	Early Winter Cress	0	UPL	UPL	2	Forb	Biennial	Adventive
BARVUL	Barbarea vulgaris	VULGARIS	Garden Yellow-Rocket	0	FAC	FAC	0	Forb	Biennial	Adventive
BIDCER	Bidens cernua	Bidens cernua	Nodding Burr-Marigold	3	OBL	OBL	-2	Forb	Annual	Native
BIDFRO	Bidens frondosa	Bidens frondosa	Devil's-Pitchfork	1	FACW	FACW	-1	Forb	Annual	Native
BIDCOM	Bidens tripartita	Bidens connata	Three-Lobe Beggarticks	3	OBL	FACW	-2	Forb	Annual	Native
BOUCUR	Bouteloua curtipendula	Bouteloua curtipendula	Side-Oats Grama	8	UPL	UPL	2	Grass	Perennial	Native
BRANIG	Brassica nigra	NIGRA	Black Mustard	0	UPL	UPL	2	Forb	Annual	Adventive
BROARV	Bromus arvensis	BROMUS JAPONICUS	Field Brome	0	FACU	FACU	1	Grass	Annual	Adventive

CXLASI	Carex lasiocarpa var. americana	Carex lasiocarpa americana	Woolly-Fruit Sedge	10 OBL	OBL	-2 Sedge	Perennial	Native
CXSTIP	Carex stipata	Carex stipata	Stalk-Grain Sedge	4 OBL	OBL	-2 Sedge	Perennial	Native
CXUTRI	Carex utriculata	Carex utriculata	Northwest Territory Sedge	8 OBL	OBL	-2 Sedge	Perennial	Native
CXVULP	Carex vulpinoidea	Carex vulpinoidea	Common Fox Sedge	2 FACW	OBL	-1 Sedge	Perennial	Native
CELOCC	Celtis occidentalis	Celtis occidentalis	Common Hackberry	2 FAC	FAC	0 Tree	Perennial	Native
CIRARV	Cirsium arvense	CIRSIMUM ARVENSE	Canadian Thistle	0 FACU	FACU	1 Forb	Perennial	Adventive
CIRVUL	Cirsium vulgare	CIRSIMUM VULGARE	Bull Thistle	0 FACU	FACU	1 Forb	Biennial	Adventive
CORALB	Cornus alba	Cornus sericea	Red Osier	5 FACW	FACW	-1 Shrub	Perennial	Native
CORRAC	Cornus racemosa	Cornus racemosa	Gray Dogwood	1 FAC	FAC	0 Shrub	Perennial	Native
CYPESC	Cyperus esculentus	Cyperus esculentus	Chufa	0 FACW	FACW	-1 Sedge	Perennial	Native
CYPFLA	Cyperus flavescens	Cyperus flavescens poaeiformis	Yellow Flat Sedge	9 OBL	OBL	-2 Sedge	Annual	Native
DALPUR	Dalea purpurea	Petalostemum purpureum	Purple Prairie-Clover	9 UPL	UPL	2 Forb	Perennial	Native
DAUCAR	Daucus carota	DAUCUS CAROTA	Queen Anne's Lace	0 UPL	UPL	2 Forb	Biennial	Adventive
DESILI	Desmanthus illinoensis	Desmanthus illinoensis	Prairie Bundle-Flower	3 FACU	FACU	1 Forb	Perennial	Native
DESCAA	Desmodium canadense	Desmodium canadense	Showy Tick-Trefoil	4 FACU	FAC	1 Forb	Perennial	Native
DIPFUL	Dipsacus fullonum	DIPSACUS FULLONUM	Fuller's Teasel	0 FACU	FACU	1 Forb	Biennial	Adventive
ECHPUR	Echinacea purpurea	Echinacea purpurea	Purple Coneflower	10 UPL	UPL	2 Forb	Perennial	Native
ELAUMB	Elaeagnus umbellata	ELAEGNUS UMBELLATA	Autumn-Olive	0 UPL	UPL	2 Shrub	Perennial	Adventive
ELEERY	Eleocharis palustris	Eleocharis erythropoda; Eleocharis palustris major; Eleocharis smallii; Eleocharis xyridiformis; Eleocharis macrostachya	Common Spike-Rush	1 OBL	OBL	-2 Sedge	Perennial	Native
ELYCAN	Elymus canadensis	Elymus canadensis	Nodding Wild Rye	4 FACU	FACU	1 Grass	Perennial	Native
EPICOL	Epilobium coloratum	Epilobium coloratum	Purple-Leaf Willowherb	3 OBL	OBL	-2 Forb	Perennial	Native
ERIANN	Erigeron annuus	Erigeron annuus	Eastern Daisy Fleabane	0 FACU	FACU	1 Forb	Biennial	Native
ERICAN	Erigeron canadensis	Erigeron canadensis	Canadian Horseweed	0 FACU	FACU	1 Forb	Annual	Native
ERIPHI	Erigeron philadelphicus	Erigeron philadelphicus	Philadelphia Fleabane	4 FACW	FAC	-1 Forb	Perennial	Native
EUPSER	Eupatorium serotinum	Eupatorium serotinum	Late-Flowering Thoroughwort	0 FAC	FAC	0 Forb	Perennial	Native
SOLGRA	Euthamia graminifolia	Solidago graminifolia; Solidago graminifolia nuttallii; Euthamia nuttallii	Flat-Top Goldentop	4 FACW	FAC	-1 Forb	Perennial	Native
FESRUB	Festuca rubra	FESTUCA RUBRA	Red Fescue	0 FACU	FACU	1 Grass	Perennial	Adventive
RHAFRA	Frangula alnus	RHAMNUS FRANGULA	Glossy False Buckthorn	0 FACW	FAC	-1 Shrub	Perennial	Adventive
GALAPA	Galium aparine	Galium spurium	Sticky-Willy	0 FACU	FACU	1 Forb	Annual	Native
GEUALE	Geum aleppicum	Geum aleppicum strictum	Yellow Avens	3 FACW	FAC	-1 Forb	Perennial	Native
GEUCAN	Geum canadense	Geum canadense	White Avens	1 FAC	FAC	0 Forb	Perennial	Native
GEULAC	Geum laciniatum	Geum laciniatum	Rough Avens	3 FACW	FACW	-1 Forb	Perennial	Native

GLEHED	Glechoma hederacea	GLECHOMA HEDERACEA	Groundivy	0 FACU	FACU	1 Forb	Perennial	Adventive
GLETRI	Gleditsia triacanthos	Gleditsia triacanthos	Honey-Locust	1 FACU	FAC	1 Tree	Perennial	Native
HACVIR	Hackelia virginiana	virginiana	Beggar's-Lice	1 FACU	FACU	1 Forb	Perennial	Native
HAMVIR	Hamamelis virginiana	virginiana	American Witch-Hazel	8 FACU	FACU	1 Shrub	Perennial	Native
HELIGG	Helianthus giganteus	Helianthus giganteus	Giant Sunflower	10 FACW	FACW	-1 Forb	Perennial	Native
HELGRO	Helianthus grosseserratus	grosseserratus	Saw-Tooth Sunflower	4 FACW	FACW	-1 Forb	Perennial	Native
HELMAX	Helianthus maximiliani	HELIANTHUS MAXIMILIANI	Maximilian's Sunflower	0 UPL	UPL	2 Forb	Perennial	Adventive
HELHEL	Heliopsis helianthoides	Heliopsis helianthoides	Smooth Oxeye	7 FACU	FACU	1 Forb	Perennial	Native
HESMAT	Hesperis matronalis	HESPERIS MATRONALIS	Mother-of-the-Evening	0 FACU	FACU	1 Forb	Perennial	Adventive
HIBMOS	Hibiscus moscheutos	Hibiscus palustris	Crimson-Eyed Rose-Mallow	7 OBL	OBL	-2 Forb	Perennial	Native
HORJUB	Hordeum jubatum	HORDEUM JUBATUM	Fox-Tail Barley	0 FAC	FAC	0 Grass	Perennial	Native
IRIVIR	Iris virginica var. shrevei	Iris virginica shrevei	Virginia Blueflag Lesser Poverty	5 OBL	OBL	-2 Forb	Perennial	Native
JUNTEN	Juncus tenuis	Juncus tenuis	Rush	0 FAC	FAC	0 Forb	Perennial	Native
JUNVIR	Juniperus virginiana	Juniperus virginiana crebra	Eastern Red-Cedar	0 FACU	FACU	1 Tree	Perennial	Native
LACSER	Lactuca serriola	LACTUCA SERRIOLA	Prickly Lettuce	0 FACU	FACU	1 Forb	Biennial	Adventive
LAPCOM	Lapsana communis	LAPSANA COMMUNIS	Nipplewort	0 UPL	UPL	2 Forb	Annual	Adventive
LEEORY	Leersia oryzoides	Leersia oryzoides	Rice Cut Grass	3 OBL	OBL	-2 Grass	Perennial	Native
LEPDEN	Lepidium densiflorum	LEPIDIUM DENSIFLORUM	Miner's Pepperwort	0 FAC	FACU	0 Forb	Annual	Adventive
LOBSIP	Lobelia siphilitica	Lobelia siphilitica	Great Blue Lobelia	4 OBL	FACW	-2 Forb	Perennial	Native
LOLPER	Lolium perenne	LOLIUM PERENNE	Perennial Rye Grass	0 FACU	FACU	1 Grass	Perennial	Adventive
LONMAA	Lonicera maackii	LONICERA MAACKII	Amur Honeysuckle	0 UPL	UPL	2 Shrub	Perennial	Adventive
MALFLO	Malus floribunda	MALUS FLORIBUNDA	Japanese Flowering Crab Apple	0 UPL	UPL	2 Tree	Perennial	Native
MEDLUP	Medicago lupulina	MEDICAGO LUPULINA	Black Medick	0 FACU	FACU	1 Forb	Annual	Adventive
MELALB	Melilotus albus	MELILOTUS ALBA	White Sweet-Clover	0 UPL	UPL	2 Forb	Biennial	Adventive
MIMRIN	Mimulus ringens	Mimulus ringens	Allegheny Monkey-Flower	4 OBL	OBL	-2 Forb	Perennial	Native
MONFIS	Monarda fistulosa	Monarda fistulosa	Oswego-Tea	4 FACU	FACU	1 Forb	Perennial	Native
MORALB	Morus alba	MORUS ALBA VAR. TATARICA	White Mulberry	0 FAC	FACU	0 Tree	Perennial	Adventive
NEPCAT	Nepeta cataria	NEPETA CATARIA	Catnip	0 FACU	FACU	1 Forb	Perennial	Adventive
OENBIE	Oenothera biennis	Oenothera biennis	King's-Cureall Slender Yellow	0 FACU	FACU	1 Forb	Biennial	Native
OXADIL	Oxalis dillenii	Oxalis dillenii	Wood-Sorrel	0 FACU	FACU	1 Forb	Perennial	Native
PANVIR	Panicum virgatum	Panicum virgatum	Wand Panic Grass	3 FAC	FAC	0 Grass	Perennial	Native
PENDIG	Penstemon digitalis	Penstemon digitalis	Foxglove	4 FAC	FAC	0 Forb	Perennial	Native
PERHYR	Persicaria hydropiper	Persicaria hydropiper	Beardtongue	2 OBL	OBL	-2 Forb	Annual	Native
PERMAC	Persicaria maculosa	POLYGONUM PERSICARIA	Mild Water-Pepper	0 FACW	FAC	-1 Forb	Annual	Adventive
PERPUN	Persicaria punctata	Polygonum punctatum	Lady's-Thumb	4 OBL	OBL	-2 Forb	Annual	Native
PHAARU	Phalaris arundinacea	PHALARIS ARUNDINACEA	Dotted Smartweed	0 FACW	FACW	-1 Grass	Perennial	Adventive
PHRAME	Phragmites australis ssp. americanus	Phragmites americanus	Reed Canary Grass	3 FACW	FACW	-1 Grass	Perennial	Native
PHYANG	Physalis angulata	PHYSALIS PENDULA	Common Reed Cut-Leaf Ground-Cherry	0 FAC	FAC	0 Forb	Annual	Adventive
PHYSUB	Physalis longifolia	Physalis subglabrata	Smooth Ground Cherry	0 UPL	UPL	2 Forb	Perennial	Native
PHYAME	Phytolacca americana	Phytolacca americana	American Pokeweed	0 FACU	FACU	1 Forb	Perennial	Native

POAPRA	Poa pratensis	POA PRATENSIS	Kentucky Blue Grass	0 FAC	FACU	0 Grass	Perennial	Adventive
PONCOR	Pontederia cordata	Pontederia cordata	Pickernelweed	9 OBL	OBL	-2 Forb	Perennial	Native
POTAMP	Potamogeton amplifolius	Potamogeton amplifolius	Large-Leaf Pondweed	10 OBL	OBL	-2 Forb	Perennial	Native
POTNAT	Potamogeton natans	Potamogeton natans	Floating Pondweed	8 OBL	OBL	-2 Forb	Perennial	Native
PYCVIR	Pycnanthemum virginianum	Pycnanthemum virginianum	Virginia Mountain-Mint	5 FACW	FACW	-1 Forb	Perennial	Native
PYRCAL	Pyrus calleryana	CALLERYANA	Ornamental Pear	0 UPL	UPL	2 Tree	Perennial	Adventive
RANSCE	Ranunculus sceleratus	Ranunculus sceleratus	Cursed Buttercup	4 OBL	OBL	-2 Forb	Annual	Native
RATPIN	Ratibida pinnata	Ratibida pinnata	Yellow Coneflower	4 UPL	UPL	2 Forb	Perennial	Native
RHACAT	Rhamnus cathartica	RHAMNUS CATHARTICA	Buckthorn	0 FAC	FAC	0 Shrub	Perennial	Adventive
RIBAME	Ribes americanum	Ribes americanum	Wild Black Currant	4 FACW	FACW	-1 Shrub	Perennial	Native
RUDHIR	Rudbeckia hirta	Rudbeckia hirta var. pulcherrima	Black-Eyed-Susan	1 FACU	FACU	1 Forb	Perennial	Native
RUDSUB	Rudbeckia subtomentosa	Rudbeckia subtomentosa	Sweet Coneflower	8 FACU	FACU	1 Forb	Perennial	Native
RUMCRI	Rumex crispus	RUMEX CRISPUS	Curly Dock	0 FAC	FAC	0 Forb	Perennial	Adventive
SALINT	Salix interior	Salix interior	Sandbar Willow	2 FACW	FACW	-1 Shrub	Perennial	Native
SALNIG	Salix nigra	Salix nigra	Black Willow	5 OBL	OBL	-2 Tree	Perennial	Native
SAMCAN	Sambucus nigra ssp. canadensis	Sambucus canadensis	Black Elder	4 FAC	FACW	-1 Shrub	Perennial	Native
ANDSCO	Schizachyrium scoparium	Andropogon scoparius	Little False Bluestem	5 FACU	FACU	1 Grass	Perennial	Native
SCHACU	Schoenoplectus acutus	Scirpus acutus	Hard-Stem Club-Rush	5 OBL	OBL	-2 Sedge	Perennial	Native
SCHFLU	Schoenoplectus fluviatilis	Scirpus fluviatilis; Bolboschoenus fluviatilis	River Club-Rush	4 OBL	OBL	-2 Sedge	Perennial	Native
SCHTAB	Schoenoplectus tabernaemontani	Scirpus validus creber	Soft-Stem Club-Rush	3 OBL	OBL	-2 Sedge	Perennial	Native
CORVAR	Securigera varia	CORONILLA VARIA	Crown Vetch	0 UPL	UPL	2 Forb	Perennial	Adventive
EREHIE	Senecio hieracifolius	Senecio hieracifolius	American Burnweed	0 FAC	FACU	0 Forb	Annual	Native
SETFAB	Setaria faberi	SETARIA FABERI	Japanese Bristle Grass	0 FACU	FACU	1 Grass	Annual	Adventive
SETGLA	Setaria pumila	SETARIA GLAUCA	Yellow Bristle Grass	0 FAC	FAC	0 Grass	Annual	Adventive
SETVIR	Setaria viridis	SETARIA VIRIDIS	Green Foxtail	0 UPL	UPL	2 Grass	Annual	Adventive
SILPER	Silphium perfoliatum	Silphium perfoliatum	Cup-Plant	5 FACW	FACW	-1 Forb	Perennial	Native
SOLDUL	Solanum dulcamara	SOLANUM DULCAMARA	Climbing Nightshade	0 FAC	FAC	0 Vine	Perennial	Adventive
SOLCAN	Solidago canadensis	Solidago canadensis	Canadian Goldenrod	1 FACU	FACU	1 Forb	Perennial	Native
SORNUT	Sorghastrum nutans	Sorghastrum nutans	Yellow Indian Grass	5 FACU	FACU	1 Grass	Perennial	Native
SPAEUR	Sparganium eurycarpum	Sparganium eurycarpum	Broad-Fruit Burr-Reed	5 OBL	OBL	-2 Forb	Perennial	Native
SPAPEC	Spartina pectinata	Spartina pectinata	Freshwater Cord Grass	4 FACW	FACW	-1 Grass	Perennial	Native
STEMED	Stellaria media	STELLARIA MEDIA	Common Chickweed	0 FACU	FACU	1 Forb	Annual	Adventive
ASTSIM	Symphyotrichum lanceolatum	Aster simplex	White Panicked American-Aster	3 FAC	FACW	0 Forb	Perennial	Native
ASTNOV	Symphyotrichum novae-angliae	Aster novae-angliae	New England American-Aster	3 FACW	FACW	-1 Forb	Perennial	Native
TAROFF	Taraxacum officinale	TARAXACUM OFFICINALE	Common Dandelion	0 FACU	FACU	1 Forb	Perennial	Adventive
THLARV	Thlaspi arvense	THLASPI ARVENSE	Field Pennycress	0 FACU	UPL	1 Forb	Annual	Adventive
TIDLAN	Tidestromia lanuginosa	TIDESTROMIA LANUGINOSA	Tidestromia	0 UPL	UPL	2 Forb	Annual	Adventive
VERHAS	Verbena hastata	Verbena hastata	Simpler's-Joy	4 FACW	FACW	-1 Forb	Perennial	Native
VERSTR	Verbena stricta	Verbena stricta	Hoary Vervain	4 UPL	UPL	2 Forb	Perennial	Native
VERURT	Verbena urticifolia	Verbena urticifolia var. leiocarpa	White Vervain	2 FAC	FAC	0 Forb	Perennial	Native

VIBDEN	Viburnum dentatum	VIBURNUM DENTATUM VAR. SCABRELLUM	Southern Arrow- Wood	0 FAC	FAC	0 Shrub	Perennial	Adventive
VIBLEN	Viburnum lentago	Viburnum lentago	Nanny-Berry	4 FAC	FAC	0 Shrub	Perennial	Native
VIBOPUA	Viburnum opulus var. americanum	Viburnum trilobum	Highbush- Cranberry	10 FAC	FACW	0 Shrub	Perennial	Native
VITRIP	Vitis riparia	Vitis riparia var. sylvicola	River-Bank Grape	1 FACW	FAC	-1 Vine	Perennial	Native
XANSTR	Xanthium strumarium	Xanthium strumarium var. canadense;						
ZIZAUR	Zizia aurea	Xanthium strumarium var. glabratum	Rough Cocklebur	0 FAC	FAC	0 Forb	Annual	Native
		Zizia aurea	Golden Alexanders	5 FAC	FAC	0 Forb	Perennial	Native