

April 6, 2026

David Wood
3200 Larsen Road
Madison, WI 53711
[email redacted]
608-442-8000

**RE: Wetland Vegetation Management Recommendations, Wood Trust
Property, Town of Blooming Grove, Dane County, Wisconsin**

Dear Dave,

At your request, I have prepared vegetation management recommendations for the wetland present in the southeastern portion of the 3200 Larsen Road property. These recommendations are aimed at improving the quality of the vegetation present. The wetland is composed of two vegetative communities: a wet meadow and a hardwood swamp (Attachment 1: Wetland Community Map). Vegetation within these communities was assessed through timed-meander surveys completed on June 25th, 2025 (Attachment 2: Timed-Meander Survey Data).

Wetland History and Vegetation Assessment

The entire wetland area was farmed until approximately 20 years ago, at which time farming within the hardwood swamp area ceased. Farming continued within the wet meadow area until approximately five years ago.

Vegetation within the hardwood swamp is of moderate quality and is dominated by native species including silver maple, eastern cottonwood, box elder, and crested oval sedge. Non-native species including reed canary grass, creeping bentgrass, and buckthorn were also observed within the swamp, but had low percent cover.

Vegetation within the wet meadow is of poor quality and is dominated by non-native redtop, creeping bentgrass, reed canary grass, and common native species such as giant goldenrod and Canada goldenrod. This vegetation is typical of fallow farmed wetlands. Several desirable native sedges and forbs were also observed within the wet meadow community with low percent cover, suggesting that a seed bank of native wetland species is still present.

Management Recommendations

The focus of vegetation management will be the wet meadow community, with the goal of reducing the cover of the dominant non-native grasses. Given that the overwhelming majority of non-native species present are grasses, it is recommended that a grass-specific herbicide, such as those with an active ingredient of clethodim or fluazifol-P, be applied to the non-native grasses via a boom-sprayer or backpack sprayers. The hardwood swamp should also be transected with a backpack sprayer; however, minimal



non-native grasses were observed within the swamp compared to the wet meadow community. Three such applications should be made each year, two in the spring on approximately May 1st and May 21st, and one in the fall on approximately October 1st. Should flowering non-native grasses be observed (June for reed canary grass, July for reedtop and creeping bentgrass) they should be mowed to prevent seed-set. These activities should be performed annually for 3-5 years.

Although not dominant, buckthorn shrubs were observed within the hardwood swamp. These shrubs should be controlled via cut-stump treatments. The shrubs should be cut close to the ground with a chainsaw or brush cutter with a chainsaw blade attachment. The stumps should then be treated with an herbicide solution containing 25% triclopyr in bark oil. Although they are native species, eastern cottonwood and box elder observed within the swamp can become weedy. These species can also be controlled with this method if desired.

Management Goals and Expectations

By implementing recommended herbicide applications and mowings, the goal is to reduce the percent cover of the dominant non-native grasses. This will allow the native species present to better compete and improve the quality of vegetation within the wetland. If desired, the diversity of vegetation could be further improved by interseeding a native wetland seed mix or with sedge species seeds, which are not affected by the recommended grass-specific herbicide treatments. A total eradication of non-native species is unlikely; however, the above recommendations should improve the quality of vegetation and result in a wetland community dominated by native species.

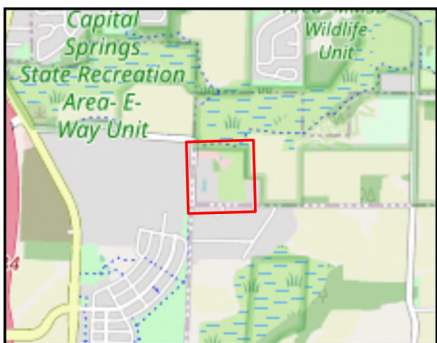
Please reach out if you have any questions regarding these management recommendations.

Sincerely,

Scott Fuchs, Senior Scientist
Heartland Ecological Group, Inc.
[email redacted]
262-903-1156

Attachments:

1. Wetland Community Map
2. Timed Meander Survey Data



- Study Area (28.96 ac)
- Wet Meadow (1.98 ac)
- Hardwood Swamp (0.33 ac)



Heartland
ECOLOGICAL GROUP INC

Figure 10. NFE
Vegetation Assessment

Wood Tr
Project #20241410
T7N, R10E, S31
T Blooming Grove, Dane Co

2024 Orthophoto
Dane Co, HEG LRR: NCNE

Figure Created: 7/1/2025



SITE NAME:		Wood Tr		PLANT COMMUNITY:	Ruderal Wet Meadow
ASSESSMENT AREA NAME:		Wet Meadow		SURVEYORS:	Scott Fuchs
GPS COORDINATES (Decimal Degrees)		Latitude:	43.018470	SURVEY DATE:	6/25/2025
		Longitude:	-89.361640		
COUNTY:		Dane County		SITE NOTES:	The assessment area is a previously farmed wet meadow and treeline along the southern boundary of the Wood property. Farming of the southernmost portion of the site ended approximately 20 years ago, but the wet meadow area was still farmed until about 5 years ago. The landowner began planting trees along the southern boundary of the assessment area decades ago and continues to plant younger trees sporadically.
ECOREGION (LEVEL III):		Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
39	28	11	109%	50%	18.1	15.4	3.4	2.9	15.4	9.2	2.5	1.5	3.2	2.0	1.3	0.0	
													17%	2%	200%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRIG	40	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRSTO	30	<i>Agrostis stolonifera</i>	creeping bent grass, creeping tickle gras	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis stolonifera</i>
SOLGIG	30	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
PHAARU	25	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
SOLCAN	20	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
CARCRI1	10	<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
CARVUL	5	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
LEEORY	5	<i>Leersia oryzoides</i>	rice cut grass	3	OBL	Native	herb	perennial	0	0	<i>Leersia oryzoides</i>
POPDEL	5	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
TYPANG	4	<i>Typha angustifolia</i>	narrow-leaved cat-tail	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Typha angustifolia</i>
JUNDUD	3	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
HORJUB	3	<i>Hordeum jubatum</i>	foxtail barley, squirrel-tail grass	0	FAC	Introduced	herb	perennial	0	0	<i>Hordeum jubatum</i>
SYMNOV	3	<i>Symphyotrichum novae-angliae</i>	New England aster	3	FACW	Native	herb	perennial	0	0	<i>Symphyotrichum novae-angliae</i>
CARBEB	2	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>



SITE NAME:		Wood Tr		PLANT COMMUNITY:	Forested Wetland / Maple Swamp
ASSESSMENT AREA NAME:		Silver Maple Swamp / Forested Wetland		SURVEYORS:	Scott Fuchs
GPS COORDINATES (Decimal Degrees)		Latitude:	43.018440	SURVEY DATE:	6/25/2025
		Longitude:	-89.360840		
COUNTY:		Dane County		SITE NOTES:	The assessment area is a silver maple swamp / forested wetland present in the southeastern corner of the Wood property. The swamp is all volunteer vegetation from seed bank (was farmed until approx 2005 and avoided by farmer afterwards). The wet meadow area to the north was farmed until about 5 years ago.
ECOREGION (LEVEL III):		Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
23	19	4	25%	12%	12.6	11.0	2.9	2.5	11.5	10.6	2.4	2.2	1.9	0.0	2.7	0.0	
													115%	3%	87%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	70	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
CARCRI1	40	<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
POPDEL	30	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
ACENEG	10	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
PHAARU	10	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PENDIG	7	<i>Penstemon digitalis</i>	false foxglove, foxglove beard-tongue, t	0	FAC	Introduced	herb	perennial	0	0	<i>Penstemon digitalis</i>
SALAMY	5	<i>Salix amygdaloides</i>	peach-leaved willow	4	FACW	Native	tree	perennial	0	0	<i>Salix amygdaloides</i>
AGRSTO	5	<i>Agrostis stolonifera</i>	creeping bent grass, creeping tickle gras	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis stolonifera</i>
SOLGIG	3	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
CARVUL	3	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
RHACAT	3	<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
VIOSOR	3	<i>Viola sororia</i>	door-yard violet, common blue violet, hc	3	FAC	Native	herb	annual/perer	0	0	<i>Viola sororia</i>
GEUTRI	2	<i>Geum triflorum</i>	old-man's-whiskers, prairie-smoke	7	FACU	Native	herb	0	0	0	<i>Geum triflorum</i>
SYMNOV	2	<i>Symphotrichum novae-angliae</i>	New England aster	3	FACW	Native	herb	perennial	0	0	<i>Symphotrichum novae-angliae</i>
BIDFRO	2	<i>Bidens frondosa</i>	common beggar-ticks, devil's beggar-tic	1	FACW	Native	herb	annual	0	0	<i>Bidens frondosa</i>

