

Site	Hidden Pond Woods	Date	2017 - 2019
Site Number	3204	Prepared	2017
Site Steward	Mary Busch	Regional Ecologist	Kristin Pink

Overview: Hidden Pond Woods is a 150-acre natural area near Hickory Hills. The namesake is a former farm pond *hidden* from view of bordering roads. The preserve is located primarily on the Tinley Moraine within the greater Palos-Sag Valley Preserve Complex. The southern portion of the site sustains remnant dry-mesic oak woodland and freshwater marsh. The northern portion is a mosaic of mesic prairie, dry-mesic woodland, freshwater marsh, and reforestation. For nearly 3 decades, volunteers lead by the late Roger Keller diligently restored much of the site. His legacy endures both through the rich biotic community present and the continued work of devoted Palos Restoration Project stewards mentored by Roger.

Site Conditions: Much of Hidden Pond Woods supports remnant habitat, though continued land management work is needed to mitigate disturbances. The impact of past grazing, cultivation, and fire protection is apparent. Early attempts at remediation included a reforestation planting by the FPCC in what was likely savanna prior to European settlement (UW02). Wetlands were ditched by settlers, the degrading effects of which extend into adjacent uplands. In exceedingly unfortunate circumstances, a farm ditch that pre-dates FPCC ownership was dredged in 2017 by the Metropolitan Water Reclamation District to alleviate flooding in the adjacent neighborhood and on Kean Avenue. Repeated dredging will likely occur each time the wetland returns to its natural condition (that is, without a drainage channel running through it). Invasive brush is another ongoing challenge; conducting prescribed burning necessary to limit nonnative brush invasion is difficult in this narrow preserve bordered by residences and well-traveled roads.

Goals: Stewardship of Hidden Pond Woods is focused on removal of nonnative species, selective thinning of native trees, and prescribed burning across the site. Seed collection and dispersal may be important to restore areas with a history of disturbance. Reconstruction of cultural communities (UW01, UW02) is a lower priority. Wetlands repeatedly disturbed by unstable, sediment-laden flows and the influence of cultural features may not be fully restorable (MA01, MA03, etc.).

Alignment of Resources: Recent restoration efforts include invasive brush removal around PR02 and treatment of reed canary grass in MA02, MA03, and PR02. Currently, approximately 80 acres of the site are under management with prescribed fire.

Overall Goals:A. Restore community structure and functionB. Expand existing native plant communitiesC. Reduce invasive species populations

Unit Management Objective Activity		Activity	Notes	Crew	
PR01, PR02	Restore prairie natural communities	Remove nonnative trees, shrubs, and vines by cutting; targets include Asian bush honeysuckle (<i>Lonicera</i> spp.), Japanese barberry (<i>Berberis</i> <i>thunbergii</i>), common buckthorn (<i>Rhamnus</i> <i>cathartica</i>), multiflora rose (<i>Rosa multiflora</i>), and Oriental bittersweet (<i>Celastrus orbiculatus</i>); stack and burn debris or scatter where appropriate; apply herbicide to cut stumps; consider flagging native shrubs in green to prevent accidental removal	Late Su, Fa, Wi (firm or dry ground)	Volunteers, Corps	
		Treat brush resprouts with foliar herbicide	Sp, Su (after full leaf expansion)	Volunteers, Corps	
		Remove herbaceous invasive plants using best practices; targets include reed canary grass (<i>Phalaris arundinacea</i>), nonnative thistle (<i>Cirsium</i> spp.), sweet clover (<i>Melilotus</i> spp.), teasel (<i>Dipsacus</i> spp.), purple loosestrife (<i>Lythrum salicaria</i>), and crown vetch (<i>Coronilla varia</i>)	Sp, Su, Fa	Volunteers, Corps	
		Collect and scatter seed sourced from Hidden Pond Woods (first preference), Spears Woods (second preference), or the Palos Region (second preference); plans to introduce species not previously known to occur at the site should be discussed with the ecologist; seed collection from other sites should be coordinated with the corresponding site steward; report to the ecologist the species, source, and location where distributed of any seed originating outside Hidden Pond Woods*	Sp, Su, Fa	Volunteers, Corps	
		Conduct prescribed burn	Dormant season	Staff, Contractors	

WO01, WO02, UW02			Late Su, Fa, Wi (firm or dry ground)	Volunteers, Corps
		Treat brush resprouts with foliar herbicide	Sp, Su (after full leaf expansion)	Volunteers, Corps
		Remove herbaceous invasive plants using best practices; targets include reed canary grass, nonnative thistle, and garlic mustard (<i>Alliaria petiolata</i>)	Sp, Su, Fa	Volunteers, Corps
		Thin native trees by cutting where necessary to bolster native ground layer vegetation; stack and burn debris or leave on ground where not ecologically sensitive; plans to remove trees >12" diameter should be reviewed with the ecologist	Wi (firm or dry ground)	Volunteers, Corps
		Collect and scatter seed sourced from within Hidden Pond Woods (first preference), Spears Woods (second preference), or the Palos Region (third preference); plans to introduce species not previously known to occur at the site should be discussed with the ecologist; seed collection from other sites should be coordinated with the corresponding site steward; report to the ecologist the species, source, and location where distributed of any seed originating outside Hidden Pond Woods*	Sp, Su, Fa	Volunteers, Corps
		Conduct prescribed burn	Dormant season	Staff, Contractors

MA01-MA07, SM01	Restore marsh and sedge meadow natural communities	Remove nonnative trees, shrubs, and vines by cutting; stack and burn debris or scatter where appropriate; apply herbicide to cut stumps; consider flagging native shrubs in green to prevent accidental removal	Late Su, Fa, Wi	Volunteers, Corps
		Treat brush resprouts with foliar herbicide	Sp, Su	Volunteers, Corps
		Remove herbaceous invasive plants using best practices; targets include reed canary grass and common reed (<i>Phragmites australis</i> subsp. <i>australis</i>)	Sp, Su, Fa	Volunteers, Corps
		Conduct prescribed burn	Dormant season	Staff, Contractors

*Please report offsite seed to the FPCC ecologist on an annual basis to help us build our seed documentation. At a minimum provide a species list, seed source or sources, and seeding location (preferred at the management unit or as detailed as possible). Information on amount or collection date also welcome if available.

All management schedule activities are subject to monitoring or supervision by the Forest Preserve District of Cook County. Additional invasive treatments may be appropriate; consult with the regional ecologist for approval. Notify the regional ecologist of additional invasive species, if found.

Site Steward Signature	Date	Approved via email on	
		12/21/2017	
Regional Ecologist Signature	Date		

		Forest Preserves of (ty
		Herbicide Guio	delines	
Commonly Used Herbici	des & Adjuvants	1		
Brand Name	Generic Names	Main Chemical	Notes	
Roundup Pro	Razor Pro, Ranger Pro	Glyphosate	Already includes surfactant	
Rodeo	Aquaneat, Glypro, Accord	Glyphosate (aquatic approved)	Use a non-ionic surfactant labeled for use over water	
Garlon 3A	Tahoe 3A, Element 3A	Triclopyr	Must use su	irfactant. Also now aquatic approved.
			N dia anith ha	
Garlon 4	Tahoe 4, Element 4	Triclopyr	Mix with basal oil (Ax-it) for stump treatment, no water added. Primarily for	
Ganon 4	Tanoe 4, clement 4	Псюруг	stump treatment. Should not be used in hot temperatures.	
			Grass speci	fic berbicide. Does not include surfactant mix with MSO, then water
Poast Plus	Vantage Grass	Sethoxydim	Grass specific herbicide. Does not include surfactant, mix with MSO, then water Highly sensitive to UV light (apply on cloudy days), not aquatic approved	
				use .64 oz per gallon, do not use with rapid permeability soil (e.g.
Transline		Clopyralid	and the second se	Upland use only.
Milestone		Aminopyralid		
Target Species	Herbicide Name	% Solution	Oz. per G	Additional Information
	hemical Basal Bark Treatments			
			1	
*	Garlon 4 (Triclopyr)	20%	25	Must be mixed with basal oil (Ax-it), NO WATER IS ADDED
			1	
				Cut-stump only (no basal bark treatment). Mix w/water. Treat as
*	Rounup Pro (Glyphosate)	20-50%		soon as possible after cutting. In cold weather may freeze.
		, Black Cherry, Maple, Basswood, T	ree of Heaven	, White Poplar, Green Ash, Box Elder, Barberry, Locusts, Dogwoods,
	ise Glyphosate on Honeysuckles			
Foliar Application of Wo			T	
Buckthorns	Garlon 3A (Triclopyr)	5-10%	6.5 - 13	Garlon 3A is mixed w/ water & surfactant
Barberry	Garlon 3A (Triclopyr)	3-5%	5	
Black Locust	Transline (Clopyralid)	0.50%	0.64	
Dogwoods	Garlon 3A (Triclopyr)	5%	6.5	
Multiflora Rose Oriental Bittersweet	Garlon 3A (Triclopyr)	3-5%	4 - 6.5	
	Garlon 3A (Triclopyr) Aquaneat (Glyphosate)	5-10% 5-10%	6.5 - 13	
Honeysuckles			6.5 - 13	herbicde so great care is needed in sensitive areas
		yphosate(mix w/water) but this is a	non-selective	nerbicae so great care is needed in sensitive dreas
Foliar Application of Her	baceous species	r	0.32	
Bird's foot Trefoil	Milestone or Transline	0.25% 0.5%	0.64	
Burdock	Garlon 3A or Rodeo	2.50%	3	
DUILOCK		2.5070	0.32	
Bull Thistle	Milestone or Transline	0.25% 0.5%	0.64	
			0.32	
Canada Thistle	Milestone or Transline	0.25% 0.5%	0.64	
Cattails	Rodeo	3%	4	
			0.32	
Crown Vetch	Milestone or Transline	0.25% 0.5%	0.64	
Day Lily	Rodeo	2-3%	3 to 4	Gyphosate only
	15 80 BIO32C			Can be sprayed in areas without sensitive vegetation or hand pull &
Garlic Mustard	Garlon 3A	3%	3	bag
Lesser Celandine	Rodeo	4%	5.12	Mix w/non-ionic surfactant. Up to 50% flowering
	1.1.1. Change (Million)	-		
Lily of the Valley	Rodeo	2-3%	3 to 4	Glyphosate only
Leafy Spurge	Rodeo	10%	13	Difficult to kill. Contact Resource Management if found
Wild Parsnip	Garlon 3A	3%	4	
Phragmites	Rodeo	3%	4	
Purple Loosestrife	Rodeo or Garlon 3A	3%	4	
Reed Canary Grass	Rodeo	3%	4	
Road Construction	Poast Plus w/MSO (don't apply in	20/		1 at mix with all (MCO) than add up to Destruction and a
Reed Canary Grass	standing water) Milestone or Transline	2%	3	1st mix with oil (MSO) then add water. Best when grass is <8" tall
Spotted Knapweed		0.50%	0.64	Hand ault 9, has
Sweet Clover	Not applicable		0.32	Hand pull & bag
Topcolc	Milestone or Transline	0.25% 0.5%	0.32	Apply @ flowering bolting or resotte stage
Teasels	Rodeo	2.50%	3	Apply @ flowering, bolting or rosette stage
Vollow Inic		2.50% 5%	3 6.5	Apply only rosette stage or use Transline Use surfactant
Yellow Iris	Rodeo	570	0.5	Use surfactant updated Nov 2016



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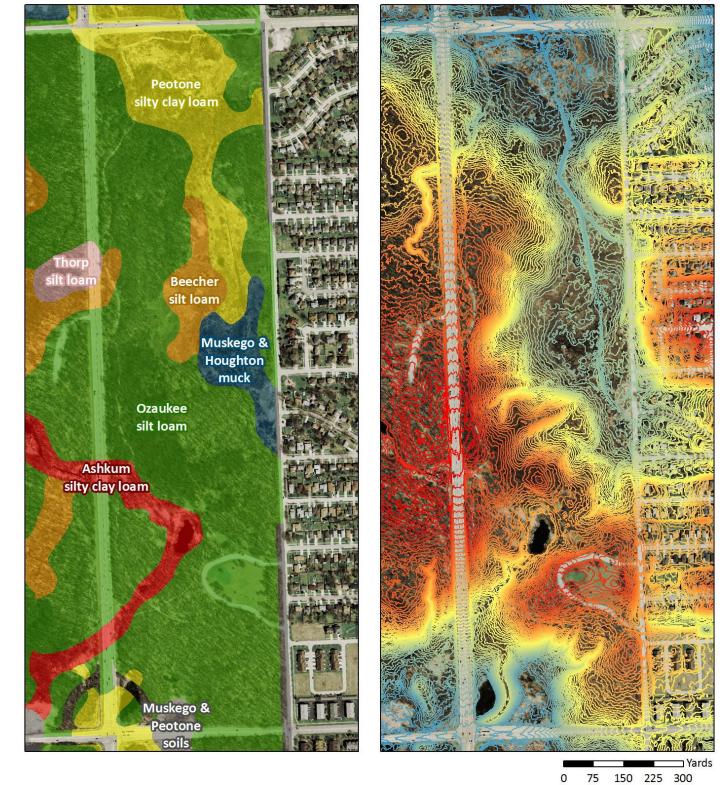
Hidden Pond - Natural Communities

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Hidden Pond - Soils

Topography

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