State of Wisconsin Department of Natural Resources

X Yes

Yes

Prior Grant Award(s)

Yes

Fiscal Year(s)

### Aquatic Invasive Species (AIS) Control Grant Application

Form 8700-307 (12/11)

Page 1 of 3

No

Yes

Project Awarded

Yes

Notice: Use of this form is required by the DNR for any application filed pursuant to ch. NR 198, Wis. Adm. Code. Personal information collected on this form, including such data as your name, address, phone number, etc., will be used for management and enforcement of DNR programs, and is not intended to be used for any other purpose. Information may be made accessible to requesters under Wisconsin's Open Records laws (s. 19.32-19.39, Wis. Stats.) and requirements. Section I: Application Type Check one: X Established Infestation Control Early Detection & Response Education, Prevention & Planning To determine your legislative district, go to **Legislative District Numbers** http://165.189.139.210/WAML// Assembly Type in complete address, next screen shows information. Section II: Applicant Information Type of Eligible Applicants Applicant Wood land Dunes Nature Conter : Presen Other Gov't Unit Federal County Waterbody Name City Sanitary Dist. Nonprofit Org. State West Twin River ( East Twin River Project County/Township/Section/Range Village Dist. College, Other School, etc. Town Assoc. Manitowoc Various Project Contact Name Authorized Representative Named by Resolution James knickle bine ennifer **Project Contact Title Authorized Representative Title** Land Manag Condinator EXECUTIVE Director Address Address 3000 Howsthorne Ave. P.O. Box 486 ZIP Code City State State City Two Rivers Two Rivers Evening Phone (area code) Daytime Phone (area code) Evening Phone (area code) Daytime Phone (area code) 920-793-400-920-793-400 rime E-Mail Address jennifer parcondland dunes ora miture a woodhinddones. ora Mail Check to: (if different from applicant) Address Name and Title City ZIP Code State Organization For DNR Use Only Date Reviewed (AIS/LC/RC) AIS/Lake /River Coordinator, Approval /Date Date Received Application Type -28-2014 AIS- ACEI Adequate Public Access Environmental Grants Specialist Approval / Date Waterbody ID# V Yes No 34000, 37000,20 Research / Demo Project Eligible Applicant Project Priority Rank Eligible Project

Amount Received To Date

### **Aquatic Invasive Species (AIS) Control** Grant Application Form 8700-307 (12/11)

Page 2 of 3

Section III: Project Information					le i		
Project Title		11- 0				Ending Date	æ
		orto c	Contra		12/31	ENGINEER PROPERTY.	
	tter of		Other Managen				etter of upport
1. Lakoshore Natural Rosource Partnership		4. Lake	Shore manage	ie Speci	Ara		X
	processes and a		s of Marin	THE PERSON NAMED IN COLUMN 2			V
	X	6. Phensa	nts Forever 1	NRCS	3.410		M
Section IV: Public Access							
Number of Public Vehicle Trailer Parking Spaces Available at	t Public	Access Site	s: 5S				
Number of Public Access Sites Including Boat Launches and	Walk-in	is: 13					
Section V: Cost Estimate and Grant Request				Project	t Costs		
Section V must be completed or application will be Details in support of Section V are welcome.	e retur	ned.	Column 1 Cash Costs	Colu	umn 2 ed Value	DNR Us	e Only
Salaries, wages and employee benefits			16,400	12,0	00		
2. Consulting services			42,500			2000	
Purchased servicesprinting and malling			1,000				
Other purchased services (specify):			10,000				
5. Plant material			10,000				2.0
Supplies (specify)							
7. Depreciation on equipment							
Hourly equipment use charges				716	20		
State Lab of Hygiene (SLOH) Costs							
10. Non-SLOH Lab Costs							
11. Other (specify) permit fees			2,235	1.0			
12. Subtotals (sum each column)	100		72,125		020		
13. Total Project Cost Estimate (sum of column 1 plus su	um of co	olumn 2)	91	,745			
14. State Share Requested (up to 75% of total costs may	v he rec	uested)	12	10 7K	1		

Use of Federal funding as match: (check box below if applicable)

 Early Detection and Response Projects—up to \$20,000 Established Infestation Control Projects—up to \$200,000

We are using or planning to apply for Federal funds to be used as match.

If known, indicate source of funding:

## Aquatic Invasive Species (AIS) Control Grant Application Form 8700-307 (12/11) Page 3 of 3

Section VI: Attachments (check all that are included	
A. For all applicants: (Refer to instructions for	applicability.)
1. Authorizing resolution	
2. Letters of support	
3. Map of project location and boundaries	
4. Lake map or river segment with public a	ccess sites identified (per Section IV of this application and page 20 of the guidelines)
5. Itemized breakdown of expenses	
6. For projects that entail sending samples	to the State Laboratory of Hygiene (SLOH) only: a completed SLOH Projected Cost
Form 7. Project scope/description:	
a. Description of project area	
b. Description of problem to be add	iressed by project
c. Discussion of project goals and	objectives
d. Description of methods and acti	
e. Description of project products of	or deliverables
f. Description of data to be collect	ed, if applicable
g. Description of existing and prop	osed partnerships
h. Discussion of role of project in p	lanning and/or management of lake
i. Timetable for implementation of	key activities
j. Plan for sharing project results	
k. Other information in support of p	project not described above
Non-profit Organizations:	Organizations (LMOs), River Management Organizations (RMOs) or Qualified
8700-287 (River Management Organiza	
Articles of Incorporation and Bylaws	ofit Organizations only: Copy of IRS 501(c)(3) determination letter and copies of your
3. List of national and/or statewide organi	함께 하는 이 중에 가장 가장 들었다. 이 가는 이 말이 되었다. 그들은 그는 그는 그는 그는 그를 가지 않는데 그를 가는 그를 가지 않는데 그를 가지 되었다. 그를 가지 않는데 그를 가지
4. List of board members' names, includir	ng municipality and county of residence. Designate officers
5. Documentation of current financial stat	us 그를 만난 로그는 그리고 한다고 있는데 그는 그를 만했다.
	or other information about your organization
C. Education, Prevention and Planning Project	ts: (No additional attachments required.)
D. Early Detection and Response Projects:	
1. APM Permit application	or Politika Politika (1904), september 1904 (1904), september 1904 (1904), september 1904 (1904), september 1 Boroko (1904), september 1904 (1904), september 1904 (1904), september 1904, september 1904, september 1904, s
E. Established Infestation Control Projects:	
X 1. Management Plan	
2. APM Permit application	
Section VII: Certification	
I certify that information in this application and all	its attachments are true and correct and in conformity with applicable Wis. Statutes.
Print/Type Name of Authorized Representative	Title of Authorized Representative
James Knicklebine	Executive Director
Signature of Authorized Representative	1) Z3 [14

### Invasive Species Management Grant Resolution

RESOLUTION OF: Woodland Dunes Nature Center and Preserve, Inc., in the County of Manitowoc.

WHEREAS The East Twin and West Twin Rivers are an important resource for wildlife and used by the public for recreation and enjoyment of natural beauty; and

WHEREAS we are qualified to carry out the responsibilities of the invasive species management project described in the state grant application;

WHEREAS in this action the Board declares its intent to conduct the invasive species project described in the grant application;

### IT IS, THEREFORE, RESOLVED THAT:

- Woodland Dunes Nature Center and Preserve, Inc. requests funds and assistance available from the Wisconsin Department of Natural Resources under the Invasive Species Grant Program: and
- HEREBY AUTHORIZES James Knickelbine, as Executive Director of Woodland Dunes Nature Center and Preserve, Inc. to: submit an application to the State of Wisconsin for financial aid; sign documents; and take necessary action to undertake, direct, and complete an approved invasive species grant project.
- BE IT FURTHER RESOLVED THAT Woodland Dunes Nature Center and Preserve, Inc. will meet the obligations of the grant project, including timely publication of the results, and meet the financial obligations under this grant including the prompt payment of our 25% commitment to project costs.

We understand the importance of a continuing invasive species protection program for the Manitowoc County and intend to proceed on that course.

Adopted this  $13^{th}$  day of January, 2014 By a vote of f in favor, f against, and 0 abstain

Respectfully submitted by

Jyn Brouchoud Lyn Brouchoud, Secretary

### Woodland Dunes /West Twin River and East Twin River Control Grant Application for Phragmites

### Background

Woodland Dunes Nature Center's genesis began in 1965 when local resident Bernie Brouchoud began catching, banding and releasing birds on what is now WDNC property. Today, Woodland Dunes Nature Center's preserve covers approximately 1,300 acres and is home to more than 400 species of plants, 260 species of both resident and migratory birds, 40 species of mammals (including human visitors), 7 species of amphibians, and thousands of species of invertebrates. Woodland Dunes Nature Center and Preserve is a legacy area with the highest ranking of conservation significance and recreation potential (WI Land Legacy Report). This is due to its unique habitat (ridges, swales, floodplains, forests and wetlands) as well as the size of undeveloped blocks remaining and its importance for habitat and food sources for migratory and resident birds. It is also important habitat for amphibians, reptiles, and mammals. It is a Wisconsin Wetland Association Wetland Gem. Woodland Dunes is also a public land (State Natural Area), a conservation opportunity area (COA) of global ecological significance, and an Important Bird Area (IBA) as defined in Wisconsin's Wildlife Action Plan. Woodland Dunes and the West Twin and East Twin Rivers are an important resource for threatened, endangered, special concern, and Species of Greatest Conservation Need (SGCN). Species in the project area include 64 bird species classified as threatened, endangered, special concern, or SGCN.

There is a 400 acre State Natural Area located within the preserve. In the State Natural Area management plan, the West Twin River marsh is described as a cattail-bulrush marsh of significance primarily as nesting habitat for Wisconsin endangered common terms and Forster's terms. This area also has had summer resident little gulls with nesting documented in 1975 (the first in the United States and one of the few in North America). The area is used by summering Caspian terms. A variety of other wetland bird species have been recorded here. The West Twin River Marsh is ranked as an Endangered Species Habitat of state significance (Wisconsin Scientific Area Preservation Council, Scientific and Natural Area report: Woodland Dunes Beech-Hemlocks, 1983) (C2).

The wetlands along the East and West Twin Rivers, including part of the Woodland Dunes Preserve, have experienced invasion by *Phragmites australis* which has accelerated in the last decade.

Woodland Dunes' mission is to protect and manage its globally important wildlife habitat so as to maintain its ecological integrity, and to involve the community in a greater understanding of natural resources through education, programmed events, and experience in our preserve. With that mission in mind, the Woodland Dunes/ West Twin River and East Twin River Phragmites Management plan for 2014-2019 incorporates source populations along the river shoreline up to the first dam in addition to the preserve property itself.

### Education/Prevention

Prevention/education will also be achieved through the Clean Boats, Clean Waters (CBCW) program. In 2013 approximately 50 hours were spent by UW Sea Grant interns conducting inspections on the West Twin River and East Twin River combined. Working in cooperation with UW Sea Grant and Manitowoc County Lakes Association, Woodland Dunes staff and volunteers would train CBCW watercraft inspectors and staff boat landings along the West Twin River and East Twin River. Staff and volunteers would spend at least 200 hours per year conducting watercraft inspections and education per the requirements of s.NR 198.22 (A1). Volunteers will be trained to identify AIS and conduct water body surveillance monitoring for early detection using accepted WDNR or citizen-based monitoring (Project RED) protocols where data is being entered into SWIMS (A3).

Woodland Dunes works closely with members of the community and other organizations to address potential source populations outside the preserve. This is done by face to face contact and education with private property owners. Woodland Dunes is already working with private property owners and organizations adjacent to the Preserve to initiate control efforts and obtain permission to treat *Phragmites* on private property. Woodland Dunes has a good working relationship with the City of Two Rivers and is working closely with them on *Phragmites* removal within the city. Partnerships have been formed and permission obtained from Glacial Lakes Conservancy to treat *Phragmites* on their land. Within the timeframe of this management plan, Woodland Dunes will also reach out to Manitowoc County Fish & Game Association to partner in treating *Phragmites* on their land. Additional partnering may be achieved through the Friends of the Twin Rivers Watershed, Friends of Mariner's Trail, and others. Woodland Dunes has also partnered with the Lakeshore Invasive Species Management Area (LISMA) to combine resources and efforts to control *Phragmites* and other invasive species in a four county area which includes Manitowoc, Kewaunee, Calumet, and Fond du Lac counties.

Results of this management effort will be submitted to WDNR per aquatic invasive species control permit requirements. An annual summary report of all grant related activities will be submitted to WDNR. Woodland Dunes Nature Center will also publicize activities and results in publications including newsletters, social media, websites, etc.

### Need for prevention

If unmanaged, *Phragmites* has the potential to overwhelm native species of plants including grasses, sedges, and forbs, reducing species diversity and drastically reducing habitat quality. A six-fold reduction in avian species richness was documented in wetlands in the eastern US following Phragmites invasion.

The control activity will take place on Statewide AIS source water – Great Lakes tributaries up to the first dam (Bla).

### Methods of Enhanced Protection

The potential for opening up an area to other invasive species would be addressed through seeding native plants into areas opened up by *Phragmites* treatment (C1). Seeding would occur on the riparian areas 1000 ft<sup>2</sup> or greater to boost the native seed bed and prevent creating a large

disturbed area for *Phragmites* to reestablish or for other non-natives to establish on the site. Seeding would be dependent on water levels, accessibility, current plant community, and potential for success. A native, wetland emergent seed mix would be used and would consist of native grasses, sedges, and rushes such as blue joint grass, reed manna grass, fowl manna grass, wool grass, prairie cordgrass, bristly sedge, fringed sedge, porcupine sedge, common rush, hard-stem bulrush, dark green bulrush, river bulrush, red bulrush, and great bulrush. It would also include native wildflowers such as sweet flag, common water plantain, southern blue flag iris, monkey flower, common arrowhead, and great bur reed. Seeding rate would be up to 4 pure live seed (PLS) pounds per acre and would be determined by current community diversity, with monoculture *Phragmites* sites receiving more native seeds to increase the chance of native reestablishment. Best Management Practices (BMPs) will be followed and the management is flexible to adjust to recommendations both of which species to use and how much to use. Monitoring of the treatment/seeded sites will occur several times each year to determine the success and adjustments will be made as needed.

### Stage of Infestation

Woodland Dunes Nature Center and Preserve successfully completed an early response project for *Phragmites* on its properties from 2007-2010 (D1). In 2013 a small, late treatment occurred in late October. Treatment occurred using a combination of Aquaneat and Habitat on the Winnie Spring Preserve (owned by Glacial Lakes Conservancy) shoreline property and Woodland Dunes Nature Center and Preserve shoreline property as well as City of Two Rivers shoreline property, all along the West Twin River. Treatment also occurred on the East Twin River shoreline of Adams Street property owners and on an island in the river. The total treatment area is estimated to be 5 acres. This treatment was done without any financial assistance from the State (H3). There has not been an AIS Established Population Control grant for the same species in the same waterbody in the last five years (II). Current mapping efforts covered approximately 7 miles of river, and included riparian properties on both sides of the main channels. Current mapped *Phragmites* colonies cover 30 acres. This is less than 25% of the colonizable area (D2).

### **Long Term Control**

The proposed control action for *Phragmites* is a combination of the bundle/cut/treat method and the foliar application method of all *Phragmites* populations in the project area. These have been historically used on these populations with success (80% reduction in initial infestation on Woodland Dunes property from year 1 to year 2 of rapid response grant) and are the most logical given the status of *Phragmites* in the management area. Continued efforts over 5 years will allow for new infestations to be detected early enough preventing them from taking hold. Existing populations will be treated and monitored over the 5 years allowing for prevention of expansion and reduction in infestation. Dead canes will be cut down after treatment, to the extent possible, in order to allow better detection of new growth the following year. Individual plants not in a colony will be hand pulled where they are found (E1).

Woodland Dunes staff had a pre-application grant scoping consultation with the Department on November 14, 2013 and again on January 15, 2014 (E2).

#### **Public Access**

The East Twin River has three access sites within the city limits of Two Rivers (eight access sites total in the project area) and the West Twin River has one access site within the city limits of Two Rivers and two additional access sites within 3 miles of Two Rivers, which is more than the minimum public boating access as defined in s. NR 1.91 (4) (F1).

The Twin Rivers also have numerous road right of ways reaching the water's edge, sportsmen clubs (Manitowoc County Fish and Game, Shoto Sportsmen's Club), two or more private resorts (Stop N Dock, Seagull Marina and Campground), wildlife observation areas (Woodland Dunes Nature Center and Preserve), public fishing piers (Two Rivers harbor and breakwater), and public land with accessible frontage (City of Two Rivers Veteran's Park, Washington Highlands riverfront trail, Woodland Dunes Nature Center and Preserve)(F2).

To date habitat protection has occurred within the Woodland Dunes preserve, initially via land acquisition to prevent filling and development in wetlands. Woodland Dunes also constructed a boardwalk through the West Twin River marsh, which protects the habitat from foot traffic and provides a canoe launch access to the river as well as a wildlife viewing area. On Willow Trail in the Preserve, buildings and rubbish were removed, ponds were constructed, and wetlands and prairies were restored. In the forest on the Preserve, non-native invasive honeysuckle, buckthorn, and Japanese barberry were removed via mechanical and chemical treatment and native species were planted. Woodland Dunes *Phragmites* management plan is part of a comprehensive land management effort to protect native plant species (G1).

Woodland Dunes Twin Rivers Phragmites control grant Timeline

### 2014

Spring -Fall - conduct Project RED trainings/CBCW volunteer trainings

Memorial Day – Labor Day – CBCW volunteer boat inspections conducted

Early-mid summer – survey of *Phragmites* populations in project area, mapping of *Phragmites* populations to first dam on each river

Late summer – chemical treatment of *Phragmites*, followed up by removal of dead stalks

Late Fall – submit APM treatment record to DNR, also submit annual report for grant

### 2015

Spring -Fall - conduct Project RED trainings/CBCW volunteer trainings

Memorial Day - Labor Day - CBCW volunteer boat inspections conducted

Early-mid summer – survey of *Phragmites* populations in the project area including mapping

Late summer – chemical treatment of *Phragmites*, followed up by removal of dead stalks

Late Fall – submit APM treatment record to DNR, also submit annual report for grant

### 2016

Spring -Fall - conduct Project RED trainings/CBCW volunteer trainings

Memorial Day - Labor Day - CBCW volunteer boat inspections conducted

Early-mid summer – survey of *Phragmites* populations in project area, mapping of *Phragmites* populations to first dam on each river

Late summer – chemical treatment of *Phragmites*, followed up by removal of dead stalks

Late Fall – submit APM treatment record to DNR, also submit annual report for grant

### Woodland Dunes Twin Rivers Phragmites Control Grant Application Budget 2014-2018

	Expense	Match	Total Cost	Source
Personnel				
Salaries, wages, and employee benefits	13,950	50	14,000	private landowner donation
Donated volunteers		12,000		Woodland Dunes volunteer hours
Mapping		2,400		Woodland Dunes Intern hours
Consulting services (control activities)	42,500		42,500	
Printing and Mailing				
Educational materials and annual reports,				
presentations, etc to landowners		1,000	1,000	Woodland Dunes
Plant Material				
Seeds	10,000		10,000	
Equipment				
ooat use		5,460	5,460	Woodland Dunes
gps use		300		Woodland Dunes
sprayer use		1,860		Woodland Dunes
Permit Fees	2,225		2,225	
Total	68,675	23,070	91,745	

### **Expense Summary**

### 1. Personnel

- Salaries, wages and employee benefits for development of management plan (60 hours at \$25/hour=\$1,500) and management of the 5 year control project (500 hours at \$25/hour = \$12,500)
- b. Donated volunteers State rate of \$12 per hour for Clean Boat Clean Water volunteers for 200 hours a year for 5 years (1000 hours at \$12/hour=\$12,000)
- c. Mapping Wages for intern at \$12 per hour to map Phragmites within the project area multiple times throughout the project 40 hours a year for 5 years (200 hours at \$12/hour=\$2,400)
- d. Consulting services (control activities) Costs associated with the actual control activities \$500 per acre (30 acres 2014 = \$15,000, 35 acres 2015 = \$17,500, 10 acres 2016 = \$5,000, 5 acres 2017 = \$2,500, 5 acres 2018 = \$2,500, total = \$42,500)

### 2. Printing and Mailing

a. Educational materials and reports sent to riparian owners and interested parties as well as presentations and trainings - \$200 per year X 5 years = \$1,000

### 3. Plant Material

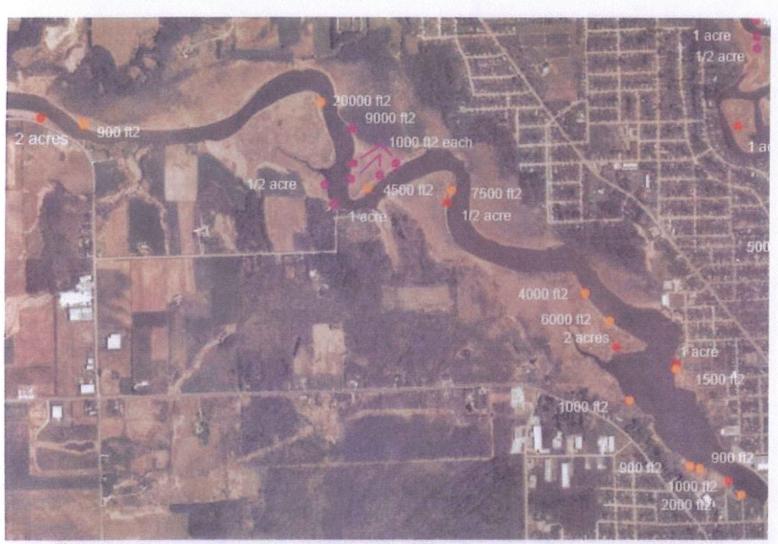
**a.** Native plant seeds to restore wetlands following treatment of *Phragmites-\$5,000 for seeds per year for the last two years of the project = \$10,000* 

### 4. Equipment

- a. Boat use State wage rate for donated boat use for control, follow up, and planting activities not carried out by the consultant (\$78/day at 10 days/year for years 1 and 2, and 5 days/year for years 3,4, and 5 =  $$2,730 \times 2 \text{ boats} = $5,460$ )
- **b.** GPS Unit use GPS unit utilized by Woodland Dunes intern to map *Phragmites* populations in the project area state rate of \$300 per project
- c. Sprayer use State DOT rate for use of sprayer for *Phragmites* treatment not carried out by the consultant (\$23.26/hour at 80 hours total for the 5 year project=\$1,860)

### 5. Permit Fees

- a. APM permit fees for the duration of the project, based on predicted acres
  - i. year 1 \$20 permit fee plus \$25x30 acres = \$750 acreage fee = \$790 total
  - ii. year 2 \$20 permit fee plus \$25x35 acres = \$875 acreage fee = \$895 total
  - iii. year 3 -\$20 permit fee plus \$25x10 acres = \$250 acreage fee = \$270 total
  - iv. year 4 \$20 permit fee plus \$25x5 acres = \$125 acreage fee = \$145 total
  - v. year 5 \$20 permit fee plus \$25x5 acres = \$125 acreage fee = \$145 total
  - vi. total for all 5 years = \$2,245



West Twin Piver Mapped Phrogmites November 17,2019



East Twin River Mapped Phragmites November 19,2013



C/O USDA NRCS 3369 West Brewster St. Appleton Wi, 54914

January 24, 2014

To: WDNR, AIS grant review board.

This letter is in support of the Woodland Dunes/West and East Twin River proposal designed to accelerate control efforts for invasive *phragmites*. To slow and hopefully one day eliminate the invasion of phragmites into the West and East Twin River system and adjacent habitats, effective control efforts are vital to native plant and animal communities. Left unchecked, these monotypic stands of phragmites reduce plant diversity and wildlife habitat. Woodland Dunes mission statement is to protect and manage important wildlife habitat in order to maintain ecological integrity and to involve the community in a greater understanding of natural resources through education. Education and local involvement is key to engaging the local citizenry and a sustained effort to achieve control and eradication. Woodland Dunes is situated ideally to effectively involve and educate local landowners and provide the technical assistance required for such an effort. As a biologist who works with landowners in Manitowoc County, I fully support and recommend the funding request for Woodland Dunes.

Sincerely,

Julie Peterson

Pheasants Forever NE Farm Bill Biologist



### Woodland Dunes Nature Center and Preserve, Inc.

### **Board Chairman** Tom Kocourek

### Vice Chairman

Bruce Robinson

Treasurer

Troy Christiansen

Secretary

Lyn Brouchoud

### Directors

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Edward Brev

Robert Gahl, MD

Michaeleen Golay

Jon Henry, MD

Susan Knorr

Ellen Lewellen

Dolly McNulty

Charles Sontag

John Woodcock

Lucy Zeldennist

### **Executive Director**

Thank you!

Jim Knickelbine

Land Management Program Donations

Woodland Dunes is a non-profit charitable organization, and we believe our land management outreach program, including invasive species management, will benefit not only wildlife but the people in Two Rivers and nearby areas. Our programs are funded by memberships, sponsorships, grants, and donations. We are seeking additional grant funding to work with property owners to help manage their land, but donations to help sustain this program would also be very much appreciated. If you would like to make a contribution, please return the following:

Name <u>K</u>	PATRICIA MORSE	Amount #50.	Check	no, 483
			ENOLO.	<b>ふ</b> 巨 <u></u> )
	3219 ADAMS ST	Phone		
	Two REVERS, WI 54241			
Email				



## Cultivating Environmental Stewardship in the Lakeshore Region

### Officers

Chris Goebel President

John Kirsch Vice President

Dan Hass Marne Kaeske Co-Treasurers

Rock Anderson Secretary

#### Directors

Tom Ward James Olson Eric Fowle Diane Schauer Justin Winga Chris Olson Annette Paul Amy Fettes

#### Staff

Jim Kettler Executive Director

Sherrill Anderson Regional Outreach Coordinate Coordinator

Jenn Hansmann Community RelationSoore Coordinator

P.O. Box 62 Sturgeon Bay, WI 54235

www.lnrp.org inquiry@lnrp.org January 21, 2014

Wisconsin Department of Natural Resources

**AIS Project Grants** 

To Whom It May Concern:

I am writing to strongly support the Woodland Dunes Nature Center's plan to further implement invasive species removal with a focus on *Phragmites* along both the East and West Twin Rivers. These activities will continue to restore and enhance critical coastal habitat from Lake Michigan to the first dam on each river.

The staff of Woodland Dunes has the capacity for invasive species work having led efforts throughout Manitowoc County and in fact are part of our newly formed Lakeshore Invasive Species Management Area (LISMA). We are beginning to see large areas become infested with *Phragmites* and this work will help turn the tide in our battle. The project is part of an overall attempt to improve the quality of the East Twin and West Twin watersheds.

The Lakeshore Natural Resource Partnership has successfully collaborated in the past with the Woodland Dunes Nature Center and we fully support their efforts. For this project, we pledge to support the project with any outreach or assistance as needed.

Thank you for considering their proposal.

Sincerely,

James Kettler, Executive Director

love hutes

### UNIVERSITY OF WISCONSIN SEA GRANT INSTITUTE

University of Wisconsin-Manitowec 705 Viebahn Street, Rm F103 Manitowec, Wisconsin 54220-6699

www.seagrant.wisc.edu

January 22, 2014

To the Grant Review Committee,

I am very interested in your Woodland Dunes /West Twin River and East Twin River Shoreline Management Plan for Phragmites 2014-2018. This is an important plan of education, outreach, and management that help to protect native species, improve habitat, and slow the spread of aquatic invasive species. Your proposal has my full and enthusiastic support.

Wisconsin Sea Grant is a statewide program of basic and applied research, education, and outreach and technology transfer dedicated to the stewardship and sustainable use of the nation's Great Lakes and ocean resources. We have a well-established reputation and network with stakeholders in the coastal areas of Wisconsin. As a supporter of this project, I will work with the Woodland Dunes Land Management Coordinator to coordinate Clean Boat Clean Waters efforts on the Twin Rivers and associated Lake Michigan shoreline. I will also provide support on the training of new Clean Boat Clean Waters volunteers. I will provide support and expertise to fisheries related work associated with the management plan.

I look forward to collaborating on this project. Please contact me if any additional information on my role in the project is needed.

Sincerely,

Titus S. Seilheimer, Ph.D.

Fisheries Specialist

Wisconsin Sea Grant





### Parks and Recreation Department

Hamilton Community House 1520 17<sup>th</sup> Street Two Rivers WI 54241-0087 www.two-rivers.org Office (920) 793-5592 Senior Center (920) 793-5596 Fax (920) 793-5529

January 22, 2014

### Dear Committee:

I am writing in support of Woodland Dunes Nature Center, 3000 Hawthorn Ave, Two Rivers WI.

I have had the opportunity to work with this group over the past 10 years. They have been helpful with the phragmites problem along our Lake Michigan shores. They have worked with the gardeners along Mariners Trail, and were vital in obtaining the designation of Bird City for the City of Two Rivers. Any project the staff at Woodland Dunes Nature Center undertakes is for the improvement of the area.

I strongly support Woodland Dunes Nature Center, in their pursuit of removing the existing phragmites and reseeding the treated areas with native wetland plants, flowers sedges, rushes etc. Woodland Dunes offers the continued support for the City of Two Rivers to help maintain the beautiful shore encouraging wildlife and vegetation to be part of the landscape.

We as a community are fortunate to have the waterways and we need to continue to plan for the future and treasure our resources.

Sincerely,

Judy Goodsbild

Judy Goodchild, CPM Director Two Rivers Parks and Recreation judgoo@two-rivers.org



### Advocating for the comprehensive management of invasive species in the lakeshore area

January 28, 2014

Wisconsin Department of Natural Resourcs

To Whom It May Concern:

It is with great pleasure that I write to support the efforts by Woodland Dunes Nature Center to remove *Phragmites australis* along the East and West Twin Rivers in Manitowoc County. Woodland Dunes has demonstrated a strong commitment to maintaining the ecological integrity of the local habitat. Their Phragmites Management Plan further proves that Woodland Dunes has a long term mission to eradicate *Phragmites* on and around their highly important property.

In fact, Woodland Dunes has a long history of success in removal of a variety of invasive species, including *Phragmites*. Not only have they been successful in invasive plant removal, but they use the work to educate and inform residents in the area about the plants and eradication techniques. This proposal will not only eliminate the invasive *Phragmites* in the designated areas, but will serve as a lesson to local residents so they may adopt similar practices on their own properties

The Lakeshore Invasive Species Management Area team is grateful to Woodland Dunes for their ongoing passion concerning the removal of *Phragmites*. They are a strong partner for LISMA because they embody the mission of LISMA to advocate for the comprehensive management of invasive species in the lakeshore area. They do this through both work on the ground and education, the perfect package.

The steering team and partners of LISMA fully support this grant request and the project that Woodland Dunes proposes. We will do whatever we can to help and assist with this effort.

Respectfully,

Diane Schauer

AIS Coordinator & Steering Team member, Lakeshore Invasive Species Management Area

Lakeshore Invasive Species Management Area (LISMA)
P.O. Box 360
Two Rivers, WI. 54241-0486
(920) 793-4007



January 24, 2014

Friends of Mariners Trail P.O. Box 2341 Manitowoc, WI 54221

Dear DNR Representative,

Friend of Mariners Trail is a non-profit group that works with the cities of Two Rivers and Manitowoc and Manitowoc County to promote, support and help maintain Mariners Trail is a recreational trail that runs along the coast of Lake Michigan between the two above mentioned cities.

One of our most successful projects has been our flowerbed project. We have 46 different groups of gardeners who plant and care for gardens along the trail. We are interested in working with Woodland Dunes to learn more about appropriate native plants to put in our gardens; plants that will attract song birds. We also want to help with eliminating the invasive species that are overgrowing the area and moving into our flowerbed spaces.

We have seen the work done along the lake to get rid of phragmites, a huge problem for sure. That work needs to continue along with the control of phragmites in other nearby areas. Our group would like to partner with Woodland Dunes by providing man power when work days take place.

We endorse the work that Woodland Dunes is doing along the lakeshore and in nearby areas. Our organization truly sees the need to fund such work. Thank you for any help you will provide for the continued control of phragmites.

Judy Corrado,

Judy Corrado

President, Friends of Mariners Trail

State of Wisconsin DNR DNR Department of Natural Resources Water Permit Central Intake – attn. APM PO Box 7185 Madison, Wi 53707-7185

# Chemical Aquatic Plant Control Application and Permit Wisconsin Pollutant Discharge Elimination System (WPDES) Pesticide Pollutant Permit Application Form 3200-004 (R 03/13) Page 1 of 4

DNR Use Only

s. 281.17(2), Wis. Stats., and Chapters NR 107, 200 and 205, Wis. Adm. Capplication is required to request coverage for pollutant discharge into wate	ode This permit	ID Number	Permit Expiration Date
Personally identifiable information on this form may be provided to requeste required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].	ers to the extent	Waterbody#	Fee Received
Section I – Applicant Information – Name of Permit Applicant. A communities or town sanitar	Name	nd addresses of all indiv g treatment. Attach addi	iduals, associations, tional sheets if necessary.
Street Address	Street Address On City		
City State ZIP Code	City		State ZIP Code
Phone Number (include area code)	Ernail Ad	fress	
Primary: 930-793-400 Secondary: Section II - Aquatic Plant Control Location			
Waterbody to be Treated (waterbody where treatment area is located)	Lake Surface Area	Less in D	acres
County Section Township Range		or Firm to also places	Secatbelment C
	P.O. Box	545	
s the waterbody a private pond?  Does the waterbody have public access?  Yes No	City MOVINTO		State ZIP Code
Adjacent Riparian Property Owner Names (attach sheets if necessary)  1. SEE WHOLINGS POSE 2.	County  County  Email Address	Phone Numb	er (include area code)
3	Applicator Certificati	tmine ton Number for Category 5	Aquatic Pesticide Application
5. 6.	SCOUL Business Location L	icense Number (If applica	ble)
7	Nestricted Use Pest	∠A cide License Number (if a	pplicable)
NONE			
rea(s) Proposed for Control: (Note details in permit cover letter for Treatment Length Treatment Width Estimated Acrea	Inal permitted sizes ge Average Depth tt.	of treatment areas.)	Total Estimated Acres
$n. \times f_1 \Rightarrow 43.560  n^2 =$		Total from lin	ies A - E
ft. Xft. * 43,560 ft.² =		Total from Attache	ed Sheets
ft. Xft. ÷ 43,560 ft.² =		Gr	and Total 30005
the estimated acreage is greater than 10 acres, or is greater than omplete and attach Form 3200-004A, Large-Scale Treatment Work	10 percent of the est	imated area 10 feet or treatments are exempt	less in depth in Section II, ed from this requirement.
s this area within or adjacent to a sensitive area designated by the Department of Natural Resources?    Yes   No		Describe:	

## Chemical Aquatic Plant Control Application and Permit WPDES Pesticide Pollutant Permit Application Form 3200-004 (R 03/13) Page 2 of 4

Page 2 of 4

2.	- 16 16 16 16 17	e, usis ure corror	tions u	nder which	h the permit fee is	limited to th	e \$20 minimur	n charge.	
3.	s. NR 107.11(4), Wis. Adm. Cod	e, lists the uses	that en	e exempt fi	from permit require	ments.			
J.	s. NR 107.04(2), Wis. Adm. Cod Fee calculations: Basis Born						or if no treatme	ent occurs.	
7,	Dasir Lati						20.00		
	(round up t	i treatment is ovi o nearest whole	er 0.25 acre, t	acre, calcı o maximun	culate acreage fee: m of 50 acres.)				
	If proposed	acres X \$25 p treatment is ≤ 0							
					********	76	SO.		
					******		10		
$\overline{\mathbb{X}}$	Site Map: Attach a sketch or a	printed man of la	ke ind	icating are	as and dimensions	of each lad	indiana ana an	hara alaat aas	stanti.
7	desired and flow of surface wat trealment area. Attach a separa	er ounsine treatm	ioni an	aa Aleach	hour location of ore				The state of the s
	tion IV – Reasons for Aquatic	Plant Control				11.00		112.00	
is i	nis permit being requested in acc approved Aquatic Plant Managen	- PRE - PR			Treatment Type				
		)	Yes	No	Lake	Pond	Wetland	Marina	Other
GO:	ll of Aquatic Plant Control:			Nulsan	nce Caused By:	The many of the second			
	Reduce nuisance algae accur	nulation			Algae				
	Maintain navigational channel	for common use	1		Emergent water p	lants (maio	rity of leaves a	and stome are	winn
	Maintain private access for bo	ating		~	above water surfa	ce, e.g. cat	tails, bulrushe	s)	3
	Maintain private access for fis	hina			Floating water pla	nts (majorit	v of leaves floa	ating on water	r surface
	Improve swimming				e.g., waterlilies, d	uckweed)			
	Improve swimming			$\parallel$ $\square$	e.g., waterlilies, d Submerged water	uckweed) plants (lea	ves and stems	below water	
9	Improve swimming Control of purple loosestrife			$\parallel$ $\square$	e.g., waterlilies, de Submerged water flowering parts ma	uckweed) plants (lea	ves and stems	below water	
	Improve swimming Control of purple loosestrife Control of invasive exotics				e.g., waterlilies, di Submerged water flowering parts ma	uckweed) plants (lea	ves and stems	below water	
9	Improve swimming Control of purple loosestrife				e.g., waterlilies, d Submerged water	uckweed) plants (lea	ves and stems	below water	
	Improve swimming Control of purple loosestrife Control of invasive exotics Other:				e.g., waterlilies, di Submerged water flowering parts ma	uckweed) plants (lea	ves and stems	below water	
Lisi	Improve swimming Control of purple loosestrife Control of invasive exotics			Note:	e.g., waterillies, di Submerged water flowering parts ma Other:	uckweed) plants (leary) plants expos	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
Lisi	Improve swimming Control of purple loosestrife Control of invasive exotics Other:			Note:	e.g., waterillies, di Submerged water flowering parts ma Other:	uckweed) plants (leary) plants expos	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
.28	Improve swimming Control of purple loosestrife Control of invasive exotics Other: Target Plants			Note:	e.g., waterillies, di Submerged water flowering parts ma Other:	uckweed) plants (leary) plants expos	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
.28	Improve swimming Control of purple loosestrife Control of invasive exotics Other:			Note:	e.g., waterillies, di Submerged water flowering parts ma Other:	uckweed) plants (leary) plants expos	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
1	Improve swimming Control of purple loosestrife Control of invasive exotics Other: Target Plants			Note:	e.g., waterillies, di Submerged water flowering parts ma Other:	uckweed) plants (leary) plants expos	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
S(a)	Improve swimming Control of purple loosestrife Control of invasive exotics Other: Target Plants  Control of invasive exotics Other: Target Plants		Facelly	Note:	e.g., waterillies, di Submerged water flowering parts ma Other: Different plants r treatment. Do no	uckweed) plants (lear y be expos equire diffet t purchase	ves and stems ed, e.g., milfoi	below water I, coontail)	surface,
Sec Vite	Improve swimming Control of purple loosestrife Control of invasive exotics Other: Target Plants  tion V - Chemical Control matives to Chemical Control:		Feasib	Note:	e.g., waterillies, di Submerged water flowering parts ma Other; Different plants r treatment. Do no	plants (lear plants (lear y be expos equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemica chemical bef	below water I, coontail)	surface,
Ser Alte	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  Control of invasive exotics Other:  Target Plants  Control Target Plants  Control Target V - Chemical Control Tatives to Chemical Control Mechanical harvesting		Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants r treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemica chemical bef	below water I, coontail)	surface,
\$60 Alte 1. 2.	Improve swimming Control of purple loosestrife Control of invasive exotics Other: Target Plants  Control of invasive exotics Other:  Target Plants  Control Target Plants  Control Target Plants  Control Target Plants  Target Plants		Yes Yes	Note:	e.g., waterillies, di Submerged water flowering parts ma Other:  Different plants r treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems led, e.g., milfoi erent chemica chemical bef	below water I, coontail)	surface,
Sign Alter 1. 2. 3.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  tion V - Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand raking		Yes Yes Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants is treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemical chemical bef	below water I, coontail) als for effecti ore identifying	ve ng plants.
34.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  tion V - Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand raking Hand cutting		Yes Yes Yes Yes	Note:	e.g., waterillies, di Submerged water flowering parts ma Other:  Different plants r treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems led, e.g., milfoi erent chemica chemical bef	below water I, coontail) als for effecti ore identifying	ve ng plants.
Second 1. 2. 3. 4. 5.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  tion V - Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand cutting Sediment screens/covers		Yes Yes Yes Yes Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants is treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemical chemical bef	below water I, coontail) als for effecti ore identifying	ve ng plants.
34.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  Ition V – Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand raking Hand cutting Sediment screens/covers Dredging		Yes Yes Yes Yes Yes Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants is treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemical chemical bef	below water I, coontail) als for effecti ore identifying	ve ng plants.
Sec Alte 1. 2. 3. 4. 5.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  tion V - Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand raking Hand cutting Sediment screens/covers Dredging Lake drawdown		Yes Yes Yes Yes Yes Yes Yes Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants is treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemical chemical bef	below water I, coontail) als for effecti ore identifying	ve ng plants.
Sec. Alte 1. 2. 3. 4. 5.	Improve swimming Control of purple loosestrife Control of invasive exotics Other:  Target Plants  Ition V – Chemical Control matives to Chemical Control: Mechanical harvesting Hand pulling Hand raking Hand cutting Sediment screens/covers Dredging		Yes Yes Yes Yes Yes Yes	Note:	e.g., waterlilies, di Submerged water flowering parts ma Other:  Different plants is treatment. Do no	plants (lear by be expose equire diffit t purchase	ves and stems ed, e.g., milfoi erent chemical chemical bef	below water I, coontail) als for effecti ore identifying	surface, ve ng plants.

## Chemical Aquatic Plant Control Application and Permit WPDES Pesticide Pollutant Permit Application Form 3200-004 (R 03/13) Page 3 of 4

	ection V - Chemical Control (continued) ade Name of Proposed Chemical(s)
i.	bibitat Cygnet Plus
P	4000t
Με	ethod of Application: bond spray from bont
	Il surface water outflow and/or overflow be controlled to prevent chemical loss? Yes No
	ve the proposed chemicals been permitted in a prior year on the proposed site?   All   Some   None
W	nat were the results of the treatment?
5	swell as treatment on newsits.
X	such as meaning if on pleasing.
Not	e: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.
Se	
1.	
2.	ction VI – Applicant Responsibilities and Certification  The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of
à	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time location and size of treatment unless the Department with the
	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?  Yes No
3.	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?
3. 4.	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?  Yes No  The applicant agrees to comply with all terms or conditions of this permit if issued, as well as all provisions of Chapter NR 107, Miles.
3. 4.	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?  Yes No  The applicant agrees to comply with all terms or conditions of this permit, if issued, as well as all provisions of Chapter NR 107, Wis. Adm. Code. The required application fee is attached.  The applicant has provided a copy of the current application to any affected property owners' association, inland lake district and, in the case of chemical applications for rooted aquatic plants, to all owners of property riparian or adjacent to the treatment area. The applicant has also provided a copy of the current chemical fact sheet for the chemicals proposed for use to any affected property.
3. 4.	The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.  The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s. NR 107.07, Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?  Yes No  The applicant agrees to comply with all terms or conditions of this permit, if issued, as well as all provisions of Chapter NR 107, Wis. Adm. Code. The required application fee is attached.  The applicant has provided a copy of the current application to any affected property owners' association, inland lake district and, in the case of chemical applications for rooted aquatic plants, to all owners of property riparian or adjacent to the treatment area. The applicant has also provided a copy of the current chemical fact sheet for the chemicals proposed for use to any affected property owner's association or inland lake district.

All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at time of treatment. During treatment all provisions of Chapter NR 107, specifically ss. NR 107.07 and NR 107.08, Wis, Adm. Code, must be complied with, as well as the specific conditions contained in the permit cover letter.

## Chemical Aquatic Plant Control Application and Permit WPDES Pesticide Pollutant Permit Application Form 3200-004 (R 03/13) Page 4 of 4

ls WPDES coverage being reque	ested? Refer to http://dnr.wi.gov/topic/wastewater/aquaticpesticides.html for more	information.	
	등 이렇게 하는 하는 이번 에게 전혀있는데 아름다면 하는데 하는데 이번 이렇게 됐다는데 하는데 얼굴 중했으면 하는데 되었다고 하는데, 이번 것이다.		
プ ツ Already have Wi-	PDES coverage until Sept. 2016 LJ Yes – complete section VII with signal e not needed		
✓ WPDES coverag	e not needed		
elect which permit you are requi	esting: WI-0064556-1 Aquatic Plants, Algae & Bacteria		
	WI-0064564-1 Aquatic Animals		
	WI-0064581-1 Mosquitoes & other Flying Insects		
	nsible for the pollutant discharge: Applicator Sponsor		
o you expect the pest control ac e treatment area boundary or a	tivity will result in a detectable pollutant discharge to waters of the state beyond pollutant residual in waters of the state after the treatment project is completed?	☐ Yes	□ No
If yes, identify the pollutant(s)			
re you planning to incorporate in our pest control activity to minim	ntegrated pest management principles, as specified in the WPDES permit, into ize any pollutant residual or pollutant discharge beyond the treatment area?	☐ Yes	□ No
ype of WPDES coverage being	requested: One Treatment Site Statewide Coverage		
or informational purposes, selec	it areas of WI for most of your aquatic treatments: NW NE SW	☐ SE	
WPDES coverage being reque	sted for more than 1 year?		
☐ Yes ☐ No If yes	, the permittee will remain in "active" WPDES status until a Notice of Termination is	s submitted.	
Signature of Authorize	d Representative Printed Name Date S	·8′′·×	
Section VIII - Permit to Carry C	Out Chemical Treatment (Leave Blank – DNR Use Only)		
The foregoing application is app application during the season of	roved. Permission is hereby granted to the applicant to chemically treat the waters $20 \c \dot{\Upsilon}$ .	described in	n the
Application fee received?	State of Wisconsin		
	Department of Natural Resources		
Yes No	For the Secretary		
	흥성() 경기 경기 기기 연극 원기 기관 경찰 등을 모았다.		
Advance notification of	Ву		
reatment required?	Regional Director or Designee		
Yes No	Date Signed Date Mailed		
Please Note:		ateatina enda	
establish time periods within wh	ght to challenge this decision, you should know that Wisconsin statutes and admini ich requests to review Department decisions must be filed.		
otherwise served by the Depart	pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision ment, to file your petition with the appropriate circuit court and serve the petition on wishall name the Department of Natural Resources as the respondent.	n is mailed the Departi	or nent.
This notice is provided pursuan			
To request a contested case he	earing pursuant to s. 227,42. Wis. Stats., you have 30 days after the decision is mail	led, or other	wise
served by the Department to si	erve a petition for hearing on the Secretary of the Department of Natural Resources earing is not a prerequisite for judicial review and does not extend the 30-day period	i. The ming	or a

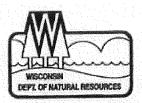
### Additional Chemical Applicators

James Knickelbine
P.O. Box 486 Two Rivers, WI 54241
Manitowoc County 920-793-4007 nature@woodlanddunes.org
Certification number: will be certified in 2014

Jennifer Steltenpohl
P.O. Box 486 Two Rivers, WI 54241
Manitowoc County 920-793-4007 jenniferp@woodlanddunes.org
Certification number: 79432

Paul Klein W7042 Lincoln Rd. Van Dyne, WI 54979 <u>paulklein@charter.net</u> Fond du Lac County 920-688-3899 Certification number: 79755 State of Wisconsin DEPARTMENT OF NATURAL RESOURCES 2984 Shawano Avenue Green Bay Wi 54313-5727

Scott Walker, Governor Cathy Stepp, Secretary Telephone 608-268-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



January 10, 2014

Jennifer Powell Woodland Dunes Nature Center and Preserve PO Box 486 wo Rivers WI 54241

Subject: Phragmites Control Plan Approval

### Dear Jennifer:

The Department has received and reviewed your Woodland Dunes/West Twin River and East Twin River Shoreline Management Plan for Phragmites 2014-2018. This letter is to inform you that the plan meets the criteria under Wisconsin Administrative Code NR 198.43 and therefore, your plan is approved. You are now eligible to submit an Aquatic Invasive Species Established Population Control grant application based on this approved plan.

Thank you for developing this thorough and well thought-out plan for controlling invasive phragmites.

Sincerely,

Mary Gansberg

Water Resources Management Specialist