

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: AIRR19216

Name: LAKE MINNESUING SANITARY DISTRICT: Yellow Flag Iris Mitigation - Lake Minnesuing

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Early Detection and Response

Status: COMPLETE

Start Date: 6/3/2015

End Date: 12/31/2020

Purpose: The Lake Minnesuing Sanitary District is sponsoring a four-year Yellow Flag Iris response project on Lake Minnesuing to do the following activities: pretreatment monitoring, collect geotagged photos of YFI sites, perform control work to include digging, cutting, and herbicide, and education of property owners.

Project deliverables include: 1) Annual summary of effectiveness comparing pre and post-treatment, including initial size of area of YFI controlled and remaining, technique used at each site, estimated density of plants at each site, hours spent performing control work, and photos of sites comparing each year; 2) Electronic copy of monitoring log submitted via email to local WI DNR Lakes Coordinator or data sheets entered into SWIMS database. Any newly identified YFI populations that were not listed in initial project will be reported with size, density, and GPS location via this monitoring log or reported into SWIMS database; 3) Summary of education component listing number of participants and dates of any workshops held, if any; copies of any media releases or outreach to sanitation district or property owners; 4) A final project report summarizing pre and post treatment size and density of areas controlled, management techniques used, outcome/post monitoring of control, qualitative summary of effectiveness of education efforts and participation of private property owners and volunteers in monitoring or control work

Special condition: A chemical control permit should be applied for if management includes herbicide techniques. Licensed applicators must be used where required by law.

This scope is intended to summarize the detailed project scope provided in the application and does not supersede those application tasks/deliverables. Data, records, and reports, including GIS-based maps and digital images, must be submitted to the Department in a format specified by the regional Lake Coordinator.

Objective:

Comments: Grantee is LAKE MINNESUING SANITARY DISTRICT

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Bates, Jeremy M	TEAM_MEMBER	ACTIVE	8/19/2019		Wisconsin DNR	
Lake Minnesuing Sanitary Distr	GRANT_RECIPIENT	ACTIVE	6/8/2016		Lake Minnesuing Sanitary District	
Toshner, Pamela J	LAKE_BIOLOGIST	ACTIVE	8/19/2019		Wisconsin DNR	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRR19216 awarded	6/3/2015	12/31/2015	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	7/21/2016	10/1/2016	APPROVED

Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	N		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	2		
CO - 15 days	Y		
CO – Date Sent	7/25/2016		
CO-Date_Received	7/21/2016		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	3532		
Chemicals - Approved	Rodeo		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
Control - Emergent water plants	Y		
Control - Floating water plants	N		
Control - Nuisance algae	N		
Control - PL	N		
Control - Submerged water plants	N		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
Entered in SharePoint	N		
Estimated Acres	0.0313		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Expiration Date	10/1/2016		
Fee	20		
Field - 15 days	N		
Field Issued By	Mark_Sundeen		

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Details: Parameter	Value/Amount	Units	Comments
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area			
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (Potamogeton amplifolius)	N		
Maintain - Other Text	Yellow Flag Iris		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	Y		
Native Plants	N		
Next Steps	Sent to Mark		
Payment Number	1392		
Permit County	Douglas		
Permit End Year	2016		
Permit Latitude	46.4690		
Permit Longitude	-91.7448		
Permit PLSS Section	16 46N11W		
Permit Start Year	2016		
Permit WBIC	2866200		
Permit Year	2016		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	N		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Lake Minnesuing		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

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APM Chemical Permit Request	Chemical Permit Details	8/18/2017	10/1/2017	APPROVED
Details: Parameter	Value/Amount	Units	Comments	
APM Plan	N			
APM Plan Agree	N			
Advance Notification	N			
Broad-leaved cattail (Typha latifolia)	N			
Business Location License	93-013996-011211			
CO - # days	1			
CO - 15 days	Y			
CO – Date Sent	8/21/2017			
CO-Date_Received	8/18/2017			
CONTROL_INVASIVES	N			
CONTROL_OTHER	N			
Category 5 Certification Number	N/A			
Chemical Permit ID	5059			
Chemicals - Approved	Rodeo			
Common arrowhead (Sagittaria latifolia)	N			
Common reed (Phragmites australis)	N			
Common waterweed (Elodea canadensis)	N			
Control - Algae	N			
Control - Emergent water plants	Y			
Control - Floating water plants	N			
Control - Nuisance algae	N			
Control - PL	N			
Control - Submerged water plants	N			
Coontail (Ceratophyllum demersum)	N			
Curly-leaf pondweed (Potamogeton crispus)	N			
Entered in SharePoint	N			
Estimated Acres	0.0035			
Eurasian water-milfoil (Myriophyllum spicatum)	N			
Expiration Date	10/1/2017			
Fee	20			
Field - 15 days	N			
Field Issued By	Mark_Sundeen			
Filamentous Algae	N			
Improvement - swimming	N			

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Details: Parameter	Value/Amount	Units	Comments
Lake Surface Area			
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (Potamogeton amplifolius)	N		
Maintain - Other Text	Yellow iris		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	Y		
Native Plants	N		
Next Steps	Mark		
Payment Number	1479		
Permit County	Douglas		
Permit End Year	2017		
Permit Latitude	0		
Permit Longitude	0		
Permit PLSS Section	46N 11W		
Permit Start Year	2017		
Permit WBIC	2866200		
Permit Year	2017		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	N		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Lake Minnesuing		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

Monitoring Stations

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Station ID	Name	Comments
10001293	Minnesuing Lake	

Assessment Units

WBIC	Segment	Local Name	Official Name
2866200	1	Minnesuing Lake	Lake Minnesuing

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
2018 Herbicide Treatment Sites	Treatment map		1/1/2018	
2019 Herbicide Treatment Site Size [excel]	Treatment sites information		1/1/2019	
2019 Herbicide Treatment Sites	Treatment map		1/1/2019	
Lake Minnesuing [AIS Map]	Map of yellow iris and purple loosestrife.		1/1/2015	
Yellow Flag Iris Herbicide Treatment. Lake Minnesuing Douglas County	Yellow Flag Iris Herbicide Treatment presentation.	Jim Giffin	6/24/2017	
Yellow Flag Iris Mitigation - Lake Minnesuing Final Report [Part 1]	Yellow Flag Iris (YFI) seemed to first appear in significant volume on Lake Minnesuing in 2014. We now understand that the reality is that it had been on the lake for a long time. In 2014 the stands of YFI seemed to be much more prevalent, perhaps because of weather conditions that promoted a prolific June bloom. The plants were all, or at least early in our process seemed to be, located in the immediate shore area, generally within a few feet of the ordinary high water mark (OHWM) either in the water or shoreward.	Jim Giffin	12/31/2020	

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Yellow Flag Iris Mitigation - Lake Minnesuing Final Report [Part 2]	Yellow Flag Iris (YFI) seemed to first appear in significant volume on Lake Minnesuing in 2014. We now understand that the reality is that it had been on the lake for a long time. In 2014 the stands of YFI seemed to be much more prevalent, perhaps because of weather conditions that promoted a prolific June bloom. The plants were all, or at least early in our process seemed to be, located in the immediate shore area, generally within a few feet of the ordinary high water mark (OHWM) either in the water or shoreward.	Jim Giffin	12/31/2020	
Yellow Flag Iris Mitigation - Lake Minnesuing Final Report [Part 3]	Yellow Flag Iris (YFI) seemed to first appear in significant volume on Lake Minnesuing in 2014. We now understand that the reality is that it had been on the lake for a long time. In 2014 the stands of YFI seemed to be much more prevalent, perhaps because of weather conditions that promoted a prolific June bloom. The plants were all, or at least early in our process seemed to be, located in the immediate shore area, generally within a few feet of the ordinary high water mark (OHWM) either in the water or shoreward.	Jim Giffin	12/31/2020	

Budget

Combined Budgets:
Combined WSLH:
Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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