

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: AIRR24019

Name: RICE LAKE P & R DISTRICT: Rice Lake Non-native Milfoil Survey, Planning, & Mgmt

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Early Detection and Response

Status: COMPLETE

Start Date: 6/1/2018

End Date: 12/31/2020

Purpose: The Rice Lake Protection and Rehabilitation District is sponsoring a response project for a recent infestation of hybrid Eurasian water milfoil in Rice Lake.

Project deliverables include GIS data & maps of areas monitored, aquatic plant data and reports, AIS monitoring reports, and an updated aquatic plant management plan.

Specific project activities include: 1) Whole lake point intercept plant survey; 2) SCUBA removal; 3) Herbicide treatment; 4) Professional and volunteer AIS monitoring; 5) Aquatic plant management plan update.

Special Conditions: 1) WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for point-intercept survey monitoring and aquatic plant management plan development. The NOR Native Plant Protection Strategy shall be integrated into the plan; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) Grant monies may not be used for control of established curly-leaf pondweed; 4) AIS monitoring volunteers shall be trained and follow Citizen Lake Monitoring Network protocols.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lakes Biologist.

Objective:

Comments: Grantee is RICE LAKE P & R DISTRICT

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Larsen, Kris H	TEAM_MEMBER	ACTIVE	8/13/2019		Wisconsin DNR	
Mosel, Kyle J	TEAM_MEMBER	INACTIVE	7/2/2019	2/23/2023	WISCONSIN DNR	
Rice Lake Protection & Rehab D	GRANT_RECIPIENT	ACTIVE	2/6/2019		Rice Lake Protection & Rehab District	
SELLE, ALEXANDER J	TEAM_MEMBER	ACTIVE	8/13/2019		Wisconsin DNR	
Smith, Alex R	TEAM_MEMBER	COMPLETE	8/13/2019		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 AIRR24019 awarded	6/1/2018	6/30/2020	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	7/2/2018	7/9/2018	APPROVED

Details: Parameter	Value/Amount	Units	Comments
APM Plan	N/A		
Alternative - Drawdown	N		
Alternative - Dredging	N		
Alternative - Manual Removal	N		
Alternative - Mechanical Harvesting	N		
Alternative - Nutrient Controls	Y		
Alternative - Sediment Screens	N		
Alternative - Why Not Drawdown	not necessary		
Alternative - Why Not Dredging	not applicable		
Alternative - Why Not Manual	Too much, too dense (hybrid EWM was removed by a diver)		
Alternative - Why Not Mechanical	non-native Milfoil was identified in this area in early June 2018		
Alternative - Why Not Sediment Screens	not applicable		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	6		
CO - Date Sent	7/9/2018		
CO-Date_Received	7/2/2018		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Category 5 Certification Number	61742		
Chemical Permit ID	0		
Chemicals - Approved	Aquastrike (endothall and diquat combined herbicide), Aquathol K or Super K, Shredder Amine 4, DMA 4, Reward, Tribune		
Chemicals Permitted Previous Year	Some		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	Y		

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Details: Parameter	Value/Amount	Units	Comments
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	Y		
Curly-leaf pondweed (Potamogeton crispus)	N		
Estimated Acres	6.12		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Fee	195		
Field - # days	Y		
Field Issued By	Mark_Sundeen		
Filamentous Algae	Y		
Improvement - swimming	N		
Lake Surface Area	977		
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (Potamogeton amplifolius)	N		
Maintain navigational channel	Y		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	liquid application using trailing hoses		
More than 1 Property Owner	Y		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Other Plants	flat-stem pondweed, common waterweed, white-water lily, spatterdock, wild celery, northern watermilfoil, clasping-leaf pondweed, fern-leaf pondweed		
Overflow Controlled	N		
PLSS_DIRECTION	W		
PLSS_RANGE	11		
PLSS_SECTION	27		
PLSS_TOWNSHIP	35		
Payment Number	2115		
Permit County	Barron		
Permit End Year	2018		
Permit Latitude	45.4880		
Permit Longitude	-91.7160		

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Details: Parameter	Value/Amount	Units	Comments		
Permit PLSS Section	27 T35R11W				
Permit Start Year	2018				
Permit WBIC	2103900				
Pithophora	N				
Planktonic Algae	N				
Private Pond	N				
Purple loosestrife (Lythrum salicaria)	N				
Sensitive Area	Y				
Softstem bulrush (Schoenoplectus tabernaemontani)	N				
Sogo pondweed (Stuckenia pectinata)	N				
Surface Water Discharge	Y				
TREATMENT_AREA	Rice Lake				
Treatment Area Greater Than 5%	N				
Treatment Date	N				
Treatment Date	N				
WPDES Coverage	N				
Waterbody Type	LAKE				
Waterbody have Public Access	Y				
Wind Direction	61742				
APM Chemical Permit Request	Chemical permit details		5/16/2019	5/16/2019	APPROVED

Details: Parameter	Value/Amount	Units	Comments		
APM Plan	N				
Algae	N				
Algimycin PWF Algaecide / Cyanobactericide	N				
Alternative - Drawdown	N				
Alternative - Dredging	N				
Alternative - Manual Removal	Y				
Alternative - Mechanical Harvesting	N				
Alternative - Nutrient Controls	Y				
Alternative - Sediment Screens	N				
Alternative - Why Not Drawdown	not necessary				
Alternative - Why Not Dredging	not necessary				
Alternative - Why Not Mechanical	Spreads HWM around, but being done later in the season after chem				
Alternative - Why Not Sediment Screens	not appropriate for this type for this type of use				

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Details: Parameter	Value/Amount	Units	Comments
Aqua Star	N		
AquaPro Herbicide	N		
AquaShade Aquatic Plant Growth Control	N		
AquaStrike	N		
Aquaneat Aquatic Herbicide	N		
Aquashadow Black Pond Colorant	N		
Aquathol K Aquatic Herbicide	N		
Aquathol Super K Granular Aquatic Herbicide	N		
Avast! SC Aquatic Herbicide	N		
Business Location License	N/A		
CO - # days	0		
CO – Date Sent	05/16/2019		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Captain Liquid Copper Algaecide	N		
Captain XTR Liquid Copper Algaecide	N		
Category 5 Certification Number	061742		
Chemical Permit ID	0		
Chemicals - Approved	Tribune, Shredder Amine 4		
Chemicals Permitted Previous Year	Some		
Chinook	N		
Clearcast (general)	N		
Clearigate	N		
Clipper Herbicide	N		
Clipper SC Aquatic Herbicide	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Common/Glossy Buckthorn	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		

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Details: Parameter	Value/Amount	Units	Comments
Curly-leaf pondweed (Potamogeton crispus)	N		
Current	N		
Cutrine-Plus Algaecide and Herbicide	N		
Cutrine-Plus Granular Algaecide	N		
Cutrine-Ultra Algaecide / Herbicide / cyanobactericide	N		
DMA 4 IVM Herbicide	N		
Earthtec Algaecide / Bactericide	N		
Element 3A Herbicide	N		
Estimated Acres	3.36		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Fee	120		
Field - Date Issued	06/05/2019		
Field - Date Received	05/17/2019		
Field Issued By	Mark_Sundeen		
Flowering Rush	N		
Flumioxazin 51% WDG - NonCrop	N		
Formula F-30 Algae Control	N		
Garlon 3A Herbicide	N		
Green Clean (general)	N		
Habitat (general)	N		
Harpoon (general)	N		
Harvester Landscape and Aquatic Herbicide	N		
Havoc Amine	N		
Hybrid Cattail	N		
Hybrid Watermilfoil	N		
Hydrothol 191 Aquatic Algicide and Herbicide	N		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	N		
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	N		
Komeen Aquatic Herbicide	N		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	977		
Large Duckweed (Spirodela polyrhiza)	N		

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Details: Parameter	Value/Amount	Units	Comments
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	sub-surface liquid injection		
Milestone Herbicide	N		
More than 1 Property Owner	Y		
NUISANCE_CAUSED_OTHER	N		
Naiad	N		
Narrow-Leaf Cattail	N		
Nautique Aquatic Herbicide	N		
Navigate	N		
Navitrol DPF Aquatic Herbicide	N		
Navitrol Landscape and Aquatic Herbicide	N		
Nutri-Sorb	N		
Orb-3 (general)	N		
Other Plants	Hybrid Water Milfoil		
Overflow Controlled	N		
PLSS_DIRECTION	W		
PLSS_RANGE	11		
PLSS_SECTION	27		
PLSS_TOWNSHIP	35		
Payment Number	3723		
Permit County	Barron		
Permit End Year	2019		
Permit Latitude	45.4880000		
Permit Longitude	-91.7160000		
Permit PLSS Section	27 35N 11W		
Permit Start Year	2019		
Permit WBIC	2103900		
Phycomycin SCP Algaecide and Oxidizer	N		
Polaris	N		
Polaris AC	N		
Pond-Klear	N		
Pondweeds	N		
Private Pond	N		
ProcellaCOR EC	N		
Purple loosestrife (Lythrum salicaria)	N		
Reed Canary Grass	N		

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Details: Parameter	Value/Amount	Units	Comments
Reed Manna Grass	N		
Refuge Herbicide	N		
Renovate 3	N		
Renovate LZR Aquatic Herbicide	N		
Renovate LZR Max Aquatic Herbicide	N		
Renovate Max G Aquatic Herbicide	N		
Renovate OTF Aquatic Herbicide	N		
Reward Landscape and Aquatic Herbicide	N		
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		
Sculpin G Aquatic Herbicide	N		
SeClear (general)	N		
SeClear G Algaecide and Water Quality Enhancer	N		
Sensitive Area	Y		
SharePoint_Number	AP-IP-NO-2019-03-4575		
Shoreklear-Plus Aquatic Herbicide	N		
Shredder Amine 4	N		
Sonar A.S.	N		
Sonar Genesis Aquatic Herbicide	N		
Sonar H4C Aquatic Herbicide	N		
Sonar PR Precision Release	N		
Sonar Q Aquatic Herbicide	N		
Sonar RTU Aquatic Weed Herbicide	N		
Sonar SRP Aquatic Herbicide	N		
SonarOne Aquatic Herbicide	N		
Starry Stonewort	N		
Stingray Aquatic Herbicide	N		
Surface Water Discharge	Y		
Symmetry NXG	N		
TREATMENT_AREA	Rice Lake		
Touchdown Pro	N		
Treatment Area Greater Than 5%	N		
Tribune Herbicide	N		
WPDES Coverage	N		

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Details: Parameter	Value/Amount	Units	Comments
Waterbody Type	Lake		
Waterbody have Public Access	Y		
Weedar 64 Broadleaf Herbicide	N		
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N		
Wind Direction	061742		
Yellow Floating Heart	N		
Yellow Iris	N		
APM Chemical Treatment Record		8/9/2019	COMPLETE
Details: Parameter	Value/Amount	Units	Comments
Air Temperature	74		
Air Temperature Units	F		
Clasping-leaf pondweed (Potamogeton richardsonii)	TS		
Common waterweed (Elodea canadensis)	TS		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	TS		
Duration of Chemical Residualts	24 hours		
EURASIAN_WATERMILFOIL_SITE	W SE		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
Fern or Robbins pondweed (Potamogeton robbinsii)	TS		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Large-leaf pondweed (Potamogeton amplifolius)	TS		
Name_supervisor	Josh Esteen (lake riparian)		
Northern water-milfoil (Myriophyllum sibiricum)	TS		
OTHER_Aquatics	TS		
OTHER_Aquatics_Desc	Wild Celery		
Onsite Supervision	No		
Permit County	Barron		
Permit Year	2018		
Person Completing Form	Dale Dressel		
Treatment Date	07/24/2018		
Treatment End Time	11:45		
Treatment Start Time	8:30		
Water Temperature	74		

8/28/2024

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Details: Parameter	Value/Amount	Units	Comments
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
Wind Direction	NW		
Wind Speed	2-5		

Monitoring Stations

Station ID	Name	Comments
10000650	Rice Lake (Barron County)	

Assessment Units

WBIC	Segment	Local Name	Official Name
2063500	10	Red Cedar River	Red Cedar River
2103900	1	Rice Lake	Rice Lake
2104100	1	Stump Lake	Stump Lake
5005607	1	Unnamed Stream	Unnamed

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
2020 July HWM Diver Removal [photos]	2020 HWM Diver Removal photos	Noah Berg	7/8/2020	

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2020 June Diver EWM Removal [photos]	Diver photos	Noah Berg	6/23/2020	
Aquatic Macrophyte Survey		Ecological Integrity Service, LLC	8/1/2018	
HWM Meandering Survey Results			1/1/2018	
News Release			1/1/2018	
Rice Lake - APM Treatment Record		Dale Dressel	7/24/2018	
Rice Lake - Driver Removal Summary		LEAPS	7/1/2018	
Rice Lake - Navigation and Treatment Map		LEAPS	7/16/2018	
Rice Lake - PI Survey			8/1/2018	
Rice Lake, Barron County FINAL 2020 HWM Treatment Map and Details	2020 HWM Treatment Map	Lake Education and Planning Services, LLC. (LEAPS)	5/23/2020	
Rice_2103900_Barron - Reports and Presentations [zip]	In early June, during a CLP bedmapping survey of Rice Lake in Barron County, two Lake Education and Planning Services (LEAPS) employees discovered what looked like Eurasian watermilfoil in Clearwater Bay off the south basin of Rice Lake (Figure 1). Samples of the suspect plants were collected and subsequently identified by aquatic plant experts and DNA testing as hybrid watermilfoil, a cross between Eurasian watermilfoil (non-native) and northern watermilfoil (native).		1/1/2020	
Rice_2103900_Barron Report Maps [zip]	Littoral zone, rake fullness, 2018 CLP, sediment, species richness maps.		1/1/2018	

Budget

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

Funding

Organization	Source	Type	Amount	Start Date	End Date
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