

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI22118  
**Name:** GOLDEN LAKE ASSOCIATION, INC: 3 yrs EWM/CLP IPM Control for Golden Lake  
**Type:** Aquatic Invasives Grant  
**Subtype:** Aquatic Invasives Control  
**Status:** ACTIVE  
**Start Date:** 04/15/2018  
**End Date:** 12/31/2020  
**Purpose:** The Golden Lake Association is sponsoring a project to continue the control curly leaf pondweed, Eurasian water milfoil and hybrid milfoil in Golden Lake.

Project activities include: 1) 3 years of DASH harvesting for invasive species in the northern bay, designed as NR 107 sensitive area; 2) Hand removal of invasive species in various bays by snorkeling; 3) Hand removal of invasive species by scuba diving in deeper water; 4) completion of a full lake point intercept plant survey in the late summer of 2020; and 5) completion of aquatic bed maps in the late summers of 2018 and 2019 showing stands of invasive species.

Project deliverables include: 1) Annual progress reports detailing the past years\2019 activities and accomplishments; 2) a final report showing maps of managed areas, tables of activities, summaries of the efforts for each species and a description of the successes and shortcomings of the project; 3) results of the 2020 P/I survey incorporated into the final report to include plant distribution maps, tables comparing data from previous years, and tables showing plant survey statistics; 4) electronic copies of GIS maps, harvesting records and the final report.

Specific project conditions: A draft copy of the final report will be provided to the WDNR for review before the report is finalized. WDNR will be provided electronic and hard copies of data and reports/plans generated as a result of this project.

If consultant is to provide final report, it is recommended that Grantee provide DNR Lake Coordinator with a draft for comment on report adequacy prior to making final payment to the consultant. DNR to receive both paper and electronic .pdf copies of the final report along with, or prior to submission of grantee's final payment request.

**Objective:**  
**Comments:** Grantee is GOLDEN LAKE ASSOCIATION, INC  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Golden Lake Association,	GRANT_RECIPII	ACTIVE	04/15/2018	12/31/2020	Golden Lake Association	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
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## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	03/29/2018	04/06/2018	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Broad-leaved cattail (Typha latifolia)	N		
	Business Location License	N/A		
	CHEMICAL_PERMIT_ID	5942		
	CO - # days	6		
	CO - 15 days	Y		
	CO - Date Sent	4/6/2018		
	CO-Date_Received	3/29/2018		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Navigate*, DMA4-IVM (Platoon,		
	Comments	N/A		
	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	N		
	Control - Nuisance algae	N		
	Control - PL	N		
	Control - Submerged water plants	Y		
	Coontail (Ceratophyllum demersum)	N		
	Curly-leaf pondweed (Potamogeton crispus)	Y		
	Entered in SharePoint	Y		
	Estimated Acres	9		
	Eurasian water-milfoil (Myriophyllum spicatum)	Y		
	Fee	245		
	Field - # days	Y		
	Field Issued By	Heidi_Bunk		
	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 navigational channel	N		
	Maintain private access - boating	N		
	Maintain private access - fishing	N		
	Muskgrasses (Chara )	N		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Heidi Bunk			
Other Plants	Eurasian Watermilfoil, Curlyle			
Payment Number	1003			
Permit County	Waukesha			
Permit End Year	2018			
Permit Latitude	43.026820			
Permit Longitude	-88.534570			
Permit PLSS Section	31 07N17E			
Permit Start Year	2018			
Permit WBIC	775900			
Pithophora	N			
Planktonic Algae	N			
Private Pond	N			
Purple loosestrife (Lythrum salicaria)	N			
SharePoint Submittal	N			
Softstem bulrush (Schoenoplectus tabernaemontani)	N			
Sogo pondweed (Stuckenia pectinata)	N			
TREATMENT_AREA	Golden Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			
Grant Awarded	Grant ACEI22118 awarded	04/15/2018	12/31/2020	COMPLETE

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Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical permit details	03/21/2019	03/21/2019	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	APM Plan	Y		
	Algae	N		
	Algimycin PWF Algaecide / Cyanobactericide	N		
	Alternative - Drawdown	N		
	Alternative - Dredging	Y		
	Alternative - Manual Removal	Y		
	Alternative - Mechanical Harvesting	N		
	Alternative - Nutrient Controls	Y		
	Alternative - Sediment Screens	Y		
	Alternative - Why Not Drawdown	Not feasible due to depth at w		
	Alternative - Why Not Mechanical	May exacerbate EWM		
	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	Y		
	Aquathol Super K Granular Aquatic Herbicide	Y		
	Avast! SC Aquatic Herbicide	N		
	Business Location License	93-010049-005505		
	CHEMICAL_PERMIT_ID	0		
	CO - # days	3		
	CO - Date Sent	03/21/2019		
	CONTROL_INVASIVES	Y		
	CONTROL_OTHER	N		
	Captain Liquid Copper Algaecide	N		
	Captain XTR Liquid Copper Algaecide	N		
	Category 5 Certification Number	93-001517		
	Chemicals - Approved	Platoon, CleanAmine,		
	Chemicals Permitted Previous Year	Some		
	Chinook	N		
	Clearcast (general)	N		
	Clearigate	N		
	Clipper Herbicide	N		
	Clipper SC Aquatic Herbicide	N		
	Comments	Proposed Chemicals (Under Chem		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea	N		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
canadensis)				
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			
Curly-leaf pondweed (Potamogeton crispus)	Y			
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	9.93			
Eurasian water-milfoil (Myriophyllum spicatum)	Y			
Fee	270			
Field - # days	24			
Field - Date Issued	04/24/2019			
Field - Date Received	03/21/2019			
Field Issued By	Heidi_Bunk			
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	N			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Herbicide				
Lake Surface Area	252			
Large Duckweed (Spirodela polyrhiza)	N			
Maintain navigational channel	N			
Maintain private access - boating	N			
Maintain private access - fishing	N			
Method of Application	Electric powered, metered inje			
Milestone Herbicide	N			
More than 1 Property Owner	Y			
NUISANCE_CAUSED_OTHER	N			
Naiad	N			
Narrow-Leaf Cattail	N			
Nautique Aquatic Herbicide	N			
Navigate	Y			
Navitrol DPF Aquatic Herbicide	N			
Navitrol Landscape and Aquatic Herbicide	N			
Nutri-Sorb	N			
Orb-3 (general)	N			
Overflow Controlled	N			
Payment Number	1016			
Permit County	Waukesha			
Permit End Year	2019			
Permit Latitude	43.0268200			
Permit Longitude	-88.5345700			
Permit PLSS Section	31 T07N R17E			
Permit Start Year	2019			
Permit WBIC	775900			
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			
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			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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-SE-2019-68-2346			
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	Golden Lake			
Touchdown Pro	N			
Treatment Area Greater Than 5%	N			
Tribune Herbicide	N			
WPDES Coverage	N			
Waterbody Type	Lake			
Waterbody have Public Access	Y			
Weedar 64 Broadleaf Herbicide	Y			
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N			
Wind Direction	93-001517			
Yellow Floating Heart	N			
Yellow Iris	N			

**Wisconsin Department of Natural Resources  
SWIMS Project Summary**

<b>Action</b>	<b>Detailed Description</b>	<b>Start</b>	<b>End Date</b>	<b>Status</b>
APM Chemical Treatment Record		08/19/2019		COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	61		
	Air Temperature Units	F		
	Broad-leaved cattail (Typha latifolia)	SP		
	Common waterweed (Elodea canadensis)	SP		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	Curly-leaf pondweed (Potamogeton crispus)	SP		
	Did Treatments Occur	Y		
	Duration of Chemical Residualts	21 days		
	Eurasian water-milfoil (Myriophyllum spicatum)	TS		
	Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
	Large-leaf pondweed (Potamogeton amplifolius)	SP		
	Muskgrasses (Chara )	SP		
	OTHER_Aquatics	SP		
	OTHER_Aquatics_Desc	Wild Celery		
	Permit County	Waukesha		
	Permit Year	2018		
	Person Completing Form	Brian Suffern		
	Sogo pondweed (Stuckenia pectinata)	SP		
	Treatment Date	06/05/2018		
	Treatment End Time	11:15		
	Treatment Start Time	9:00		
	Water Temperature	71		
	Water Temperature Units	F		
	Wind Direction	NE		
	Wind Speed	8		

**Monitoring Stations**

<b>Station ID</b>	<b>Name</b>	<b>Comments</b>
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**Assessment Units**

<b>WBIC</b>	<b>Segment</b>	<b>Local Name</b>	<b>Official Name</b>
775900	1	Golden Lake	Golden Lake

**Lab Account Codes**

<b>Account Code</b>	<b>Description</b>	<b>Start Date</b>	<b>End Date</b>
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**Forms**



## Wisconsin Department of Natural Resources SWIMS Project Summary

**Form Code                      Form Name**

**Methods**

**Method Code                      Description**

**Fieldwork Events**

**Start Date                      Status                      Field ID                      Station ID                      Station Name**

**Documents**

**Title                      Description                      Author                      Published                      Comments**

**Budget**

**Combined Budgets:**

**Combined SLOH:**

**Combined Total:**

**Funding**

**Organization                      Source                      Type                      Amount                      Start Date                      End Date**