

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ACEI18316

Name: GOLDEN LAKE ASSOCIATION, INC: Golden Lake Association, Inc. 2016-2017 AIS Grant

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Control

Status: COMPLETE

Start Date: 4/15/2016

End Date: 12/31/2017

Purpose: The Golden Lake Association is sponsoring an integrated pest management project on Golden Lake.

Project deliverables: 2017 full point intercept (P/I) plant survey results; summary of 2016 & 2017 hand pulling efforts, summary of 2016 & 2017 DASH harvesting; late summer 2016 littoral survey results; final report evaluating the effectiveness of hand pulling, DASH, chemical treatment (not funded); discussion of goals in the 2015 APM plan; copies of permits, and data entry into SWIMS.

Project activities: 1) Conduct DASH harvesting in 2016 & 2017 (approx. 2 acres/yr); 2) Conduct a full P/I survey in summer 2017; 3) Conduct hand removal efforts in 2016 & 2017; 4) Conduct a littoral zone survey in late summer 2016; 5) Generate a final report.

Special Conditions: 1) All data shall be entered into the SWIMS database; 2) Volunteer and equipment use lists and signatures shall be maintained for reporting in kind volunteer labor and equipment. 3) Final report to analyze the 2017 data and include distribution and density maps for hybrid/Eurasian water milfoil, curly leaf pondweed, and the top 7 native plant species. Final report to also include a table listing the species found in the lake in all years surveyed, including historical data, frequency of occurrence and relative density. Final report to evaluate the effectiveness of the integrated pest management project.

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 Lake Biologist.

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_RECIPIENT	ACTIVE	6/1/2016		Golden Lake Association	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant ACEI18316 awarded	4/15/2016	12/31/2017	COMPLETE

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APM Chemical Permit Request		Chemical Permit Details	2/3/2017	10/1/2017	APPROVED
Details: Parameter	Value/Amount	Units	Comments		
APM Plan	N				
Algae	N				
Algimycin PWF Algaecide / Cyanobactericide	N				
Alternative - Drawdown	Y				
Alternative - Dredging	Y				
Alternative - Manual Removal	Y				
Alternative - Mechanical Harvesting	Y				
Alternative - Nutrient Controls	Y				
Alternative - Sediment Screens	Y				
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	N				
Avast! SC Aquatic Herbicide	N				
Business Location License	93-010049-00505				
CO - # days	1				
CO - Date Sent	2/6/2017				
CO-Date_Received	2/3/2017				
CONTROL_INVASIVES	Y				
CONTROL_OTHER	N				
Captain Liquid Copper Algaecide	N				
Captain XTR Liquid Copper Algaecide	N				
Category 5 Certification Number	1517				
Chemical Permit ID	3683				
Chemicals - Approved	DMAIVM, Aquathol K				
Chemicals Permitted Previous Year	All				
Chinook	N				
Clearcast (general)	N				
Clearigate	N				
Clipper Herbicide	N				
Clipper SC Aquatic Herbicide	N				

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Details: Parameter	Value/Amount	Units	Comments
Comments	Entered missing information (EAH)		
Common reed (<i>Phragmites australis</i>)	N		
Common waterweed (<i>Elodea canadensis</i>)	N		
Common/Glossy Buckthorn	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (<i>Ceratophyllum demersum</i>)	N		
Curly-leaf pondweed (<i>Potamogeton crispus</i>)	Y		
Current	N		
Cutrine-Plus Algaecide and Herbicide	N		
Cutrine-Plus Granular Algaecide	N		
Cutrine-Ultra Algaecide / Herbicide / cyanobactericide	N		
DMA 4 IVM Herbicide	Y		
Earthtec Algaecide / Bactericide	N		
Element 3A Herbicide	N		
Estimated Acres	9		
Eurasian water-milfoil (<i>Myriophyllum spicatum</i>)	Y		
Expiration Date	10/1/2017		
Fee	2445		
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	Y		

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Details: Parameter	Value/Amount	Units	Comments
Hydrothol 191 Aquatic Algicide and Herbicide	N		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	Y		
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	N		
Komeen Aquatic Herbicide	N		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	252		
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Maintain navigational channel	Y		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	Gasoline Powered spray pump		
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		
Overflow Controlled	N		
Permit County	Waukesha		
Permit End Year	2017		
Permit Latitude	43.026820		
Permit Longitude	-88.534570		
Permit PLSS Section	3107N17E		
Permit Start Year	2017		
Permit WBIC	775900		
Permit Year	2017		
Phycomycin SCP Algaecide and Oxidizer	N		
Polaris	N		

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Details: Parameter	Value/Amount	Units	Comments
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		
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	N		
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	N		

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Details: Parameter	Value/Amount	Units	Comments		
Symmetry NXG	N				
TREATMENT_AREA	Golden Lake				
Touchdown Pro	N				
Treatment Area Greater Than 5%	N				
Treatment Date	N				
Treatment Date	N				
Tribune Herbicide	N				
WPDES Coverage	N				
Waterbody Type	LAKE				
Waterbody have Public Access	Y				
Weedar 64 Broadleaf Herbicide	N				
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N				
Wind Direction	1517				
Yellow Floating Heart	N				
Yellow Iris	N				
APM Chemical Treatment Record	Chemical treatment details	6/6/2017	6/6/2017	COMPLETE	

Details: Parameter	Value/Amount	Units	Comments		
Air Temperature	72				
Air Temperature Units	F				
Aqua-Pro Acres	0				
Aqua-Pro Gallons	0				
Aquaneat Acres	0				
Aquaneat Gallons	0				
Aquashade Acres	0				
Aquashade Pounds	0				
Aquastar Acres	0				
Aquastar Gallons	0				
Aquathol Acres	0				
Aquathol Gallons	0				
Aquathol K Acres	0				
Aquathol K Gallons	0				
Aquathol Super K, # Acres	0				
Aquathol Super K, # Pounds	0				
Aquathol, # Acres Gallons	0				
Aquathol, # Pounds	0				
Avast Acres	0				
Avast Gallons	0				
Broad-leaved cattail (Typha latifolia)	SP				

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Details: Parameter	Value/Amount	Units	Comments
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Clasping-leaf pondweed (Potamogeton richardsonii)	SP		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Common waterweed (Elodea canadensis)	SP		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Curly-leaf pondweed (Potamogeton crispus)	SP		
Citrine Acres	0		
Citrine Liquid Acres	0		
Citrine Liquid Gallons	0		
Citrine Plus Acres	0		
Citrine Plus Liquid Acres	0		
Citrine Plus Liquid Gallons	0		
Citrine Plus Pounds	0		
Citrine Pounds	0		
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	4.5		
DMA 4 IVM Gallons	67.5		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	21 days		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		

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Details: Parameter	Value/Amount	Units	Comments
Fern or Robbins pondweed (Potamogeton robbinsii)	SP		
Flat-stem pondweed (Potamogeton zosteriformis)	SP		
Floating-leaf pondweed (Potamogeton natans)	SP		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Illinois pondweed (Potamogeton illinoensis)	SP		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large-leaf pondweed (Potamogeton amplifolius)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Waukesha		
Permit Year	2017		
Person Completing Form	Brian J Suffern		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		

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Details: Parameter	Value/Amount	Units	Comments
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sogo pondweed (Stuckenia pectinata)	SP		
Sonar AS Gallons	0		
Sonor AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	6/6/2017		
Treatment End Time	13:35		
Treatment Start Time	10:30		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	70		
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		

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Details: Parameter	Value/Amount	Units	Comments
Water Use Restriction - Swimming	N		
Watershield (Brasenia schreberi)	SP		
White water lily (Nymphaea odorata)	SP		
White-stem pondweed (Potamogeton praelongis)	SP		
Wild Celery	SP		
Wind Direction	NE		
Wind Speed	5-10		

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
775900	1	Golden Lake	Golden Lake

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
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Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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