

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AIRR-188-16

**Name:** LITTLE MUSKEGO LAKE P & R DISTRICT: Containment and Suppression of Starry Stonewort

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Early Detection and Response

**Status:** COMPLETE

**Start Date:** 5/26/2015

**End Date:** 12/31/2016

**Purpose:** The Little Muskego Lake Protection and Rehabilitation District, in partnership with the City of Muskego, the Little Muskego Lake Association and the Wisconsin Department of Natural Resources, will undertake a rapid response project on Little Muskego Lake to control and potentially eradicate Starry Stonewort, listed in NR 40 as a prohibited species. The project will include hand pulling by snorkeling and diving; DASH (Diver Assisted Suction Harvesting), a whole lake P/I survey in late August, at least one intensive plant survey in Hillview Bay, Clean Boats, Clean Waters boat inspections at 4 launches, extra signage at launches and potentially a chemical treatment. The project deliverable will be a report containing the results of each hand pulling event; results of each DASH event, results of any chemical treatments, a summary of the Clean Boats, Clean Waters accomplishments, all raw data from plant surveys and maps from each of the plant surveys. All Clean Boats, Clean Waters data must be entered in the statewide SWIMS database.

**Objective:**

**Comments:** Grantee is LITTLE MUSKEGO LAKE P & R DISTRICT

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Little Muskego Lake P & R Dist	GRANT_RECIPIENT	ACTIVE	8/7/2015		Little Muskego Lake P & R District	

### Project Statuses

Date	Reported By	Status	Comments
------	-------------	--------	----------

### Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded	Grant AIRR-188-16 awarded	5/26/2015	12/31/2016	COMPLETE
APM Chemical Permit Request	Chemical Permit Details	5/3/2016	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 - 15 days	Y		
CO - Date Sent	5/3/2016		

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

<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
CO-Date_Received	5/3/2016		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	2987		
Chemicals - Approved	Aquathol K, DMA, Captain XRT		
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	N		
Estimated Acres	200		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Expiration Date	10/1/2016		
Fee	1250		
Field - 15 days	N		
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 - Other Text	Starry Stonewort		
Maintain navigational channel	N		
Maintain private access - boating	N		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Maintain private access - fishing	N		
Muskgrasses (Chara )	N		
NUISANCE_CAUSED_OTHER	Y		
Native Plants	N		
Next Steps	Sent to Heidi		
Payment Number	5296		
Permit County	Waukesha		
Permit End Year	2016		
Permit Latitude	42.913759		
Permit Longitude	-88.14307120		
Permit PLSS Section	9 05N20E		
Permit Start Year	2016		
Permit WBIC	762700		
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	Little Muskego Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

APM Chemical Treatment Record	Chemical treatment details	6/2/2016	6/2/2016	COMPLETE
-------------------------------	----------------------------	----------	----------	----------

Details: Parameter	Value/Amount	Units	Comments
Air Temperature	21.7		
Air Temperature Units	C		
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		
Aquastar Acres	0		

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

<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Aquastar Gallons	0		
Aquathol Acres	0		
Aquathol Gallons	0		
Aquathol K Acres	0		
Aquathol K Gallons	43.6		
Aquathol Super K, # Acres	0		
Aquathol Super K, # Pounds	0		
Aquathol, # Acres Gallons	14.5		
Aquathol, # Pounds	0		
Avast Acres	0		
Avast Gallons	0		
Captain XTR, # Acres	0		
Captain XTR, # Gallons	0		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Curly-leaf pondweed (Potamogeton crispus)	TS		
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	93.4		
DMA 4 IVM Gallons	935		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	<30 days		

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

<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
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		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Waukesha		
Permit Year	2016		
Person Completing Form	Amy Kay Wensink		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		

7/24/2024

## Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
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				
Sonar AS Gallons	0				
Sonar AS Acres	0				
Touchdown Pro Acres	0				
Touchdown Pro Gallons	0				
Treatment Date	6/2/2016				
Treatment End Time	16:57				
Treatment Start Time	11:56				
Tribune Acres	0				
Tribune Gallons	0				
Vectobac Acres	0				
Vectobac Gallons	0				
Water Temperature	24.2				
Water Temperature Units	C				
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	West				
Wind Speed	1-6				
APM Chemical Treatment Record	Chemical treatment details		6/29/2016	6/29/2016	COMPLETE

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

<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Air Temperature	23.9		
Air Temperature Units	C		
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		
Captain XTR, # Acres	120		
Captain XTR, # Gallons	0		
Clearcast Acres	0		
Clearcast Gallons	0		
Clearigate Acres	0		
Clearigate Gallons	0		
Contains Herbicide totals	Y		
Control Comments	Herbicide applied with rhodamine dye to track movement.		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
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		

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

<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Citrine Ultra Acres	0		
Citrine Ultra Gallons	0		
DMA 4 IVM Acres	0		
DMA 4 IVM Gallons	0		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	<30 days		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
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		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Muskgrasses (Chara )	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Waukesha		



## Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Permit Year	2016		
Person Completing Form	Amy Kay Wensink		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
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		
Sonar AS Gallons	0		
Sonar AS Acres	0		
Starry Stonewort	TS		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	6/29/2016		
Treatment End Time	13:05		
Treatment Start Time	10:38		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	26.3		
Water Temperature Units	C		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
Wind Direction	NWN		
Wind Speed	5-7		

### Monitoring Stations

Station ID	Name	Comments
------------	------	----------

### Assessment Units

WBIC	Segment	Local Name	Official Name
762500	1	Muskego Creek	Muskego Creek
762700	1	Little Muskego Lake	Little Muskego Lake

### Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

### Forms

Form Code	Form Name
-----------	-----------

### Methods

Method Code	Method Description
-------------	--------------------

### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
------------	--------	----------	------------	--------------

### Documents

Title	Description	Author	Published	Comments
-------	-------------	--------	-----------	----------

### Budget

#### Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------