

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AIRR21017  
**Name:** LONG LAKE PROTECTION DISTRICT: Identification and Suppression of SSW on Long Lake II  
**Type:** Aquatic Invasives Grant  
**Subtype:** Aquatic Invasives Early Detection and Response  
**Status:** COMPLETE  
**Start Date:** 06/01/2016  
**End Date:** 06/30/2018  
**Purpose:** The Long Lake Protection District will hire a consultant to survey and manage a pioneering population of Starry Stonewort (Nitellopsis obtusa).

Project deliverables: long term management plan; summary of the 2016 hand pulling efforts; summary of the 2016 chemical treatment efforts, 2016 starry stonewort distribution maps; 2016 plant height data; final report evaluating the effectiveness of hand pulling and chemical treatment, copies of permits, and data entry into SWIMS.

Project activities:1) Development of plan for the future monitoring and control of Starry Stonewort in Long Lake; 2) Conduct chemical treatments; 3) Conduct hand pulling of Starry Stonewort; 4) Conduct measurements of plant height for all Starry Stonewort beds; 5) Conduct a snorkel/kayak/boat survey to map starry stonewort distribution; 6) Generate a final report containing all the project deliverables.

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.

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 LONG LAKE PROTECTION DISTRICT  
**Outcome:**  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Bunk, Heidi J	LAKE_BIOLOGIC	ACTIVE	08/16/2019		Wisconsin DNR	
KRETLOW, AMY L	TEAM_MEMBER	ACTIVE	08/16/2019		Wisconsin DNR	
Long Lake Protection District,	TEAM_MEMBER	ACTIVE	08/16/2019		Long Lake Protection District	
Mosel, Kyle J	TEAM_MEMBER	ACTIVE	08/16/2019		WISCONSIN DNR	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start	End Date	Status
Grant Awarded	Grant AIRR21017 awarded	06/01/2016	12/31/2017	COMPLETE

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	03/29/2017	12/31/2017	APPROVED
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	APM Plan	N		
	Algae	N		
	Algimycin PWF Algaecide / Cyanobactericide	Y		
	Alternative - Drawdown	N		
	Alternative - Dredging	N		
	Alternative - Manual Removal	Y		
	Alternative - Mechanical Harvesting	N		
	Alternative - Nutrient Controls	N		
	Alternative - Sediment Screens	N		
	Alternative - Why Not Drawdown	Studies have shown detrimental		
	Alternative - Why Not Dredging	Public lake		
	Alternative - Why Not Manual	Some manual removal is done by		
	Alternative - Why Not Mechanical	Too costly and dealing with lo		
	Alternative - Why Not Nutrient Control	Unknown		
	Alternative - Why Not Sediment Screens	Too costly and would not promo		
	Aqua Star	N		
	AquaPro Herbicide	N		
	AquaShade Aquatic Plant Growth Control	N		
	AquaStrike	Y		
	Aquaneat Aquatic Herbicide	Y		
	Aquashadow Black Pond Colorant	N		
	Aquathol K Aquatic Herbicide	Y		
	Aquathol Super K Granular Aquatic Herbicide	Y		
	Avast! SC Aquatic Herbicide	Y		
	Business Location License	N/A		
	CO – Date Sent	3/29/2017		
	CO-Date_Received	3/29/2017		
	CONTROL_INVASIVES	Y		
	CONTROL_OTHER	Y		
	CONTROL_OTHER_LIST	Aesthetics		
	Captain Liquid Copper Algaecide	Y		
	Captain XTR Liquid Copper Algaecide	Y		
	Category 5 Certification Number	N/A		
	Chemical Permit ID	4216		
	Chemicals - Approved	Algae Defense, Algimycin, Capt		
	Chemicals Permitted Previous Year	Some		
	Chinook	N		
	Clearcast (general)	N		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Clearigate	Y			
Clipper Herbicide	Y			
Clipper SC Aquatic Herbicide	N			
Comments	Corrected/added information 7/			
Common reed (Phragmites australis)	Y			
Common waterweed (Elodea canadensis)	N			
Common/Glossy Buckthorn	N			
Control - Algae	Y			
Control - Emergent water plants	Y			
Control - Floating water plants	Y			
Control - Submerged water plants	Y			
Coontail (Ceratophyllum demersum)	N			
Curly-leaf pondweed (Potamogeton crispus)	Y			
Current	Y			
Citrine-Plus Algaecide and Herbicide	Y			
Citrine-Plus Granular Algaecide	N			
Citrine-Ultra Algaecide / Herbicide / cyanobactericide	Y			
DMA 4 IVM Herbicide	Y			
Earthtec Algaecide / Bactericide	Y			
Element 3A Herbicide	N			
Estimated Acres	109.2			
Eurasian water-milfoil (Myriophyllum spicatum)	Y			
Fee	1270			
Field Issued By	Craig_Helker			
Flowering Rush	N			
Flumioxazin 51% WDG - NonCrop	N			
Formula F-30 Algae Control	N			
Garlon 3A Herbicide	N			
Green Clean (general)	Y			
Habitat (general)	Y			
Harpoon (general)	N			
Harvester Landscape and Aquatic Herbicide	N			
Havoc Amine	N			
Hybrid Cattail	N			
Hybrid Watermilfoil	N			
Hydrothol 191 Aquatic Algicide and Herbicide	Y			
Hydrothol Granular Aquatic Algaecide and Herbicide	N			
Improvement - swimming	N			
Japanese Knotweed	N			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
K-Tea Aquatic Algaecide	Y			
Komeen Aquatic Herbicide	Y			
Komeen Crystal Aquatic Herbicide	N			
Lake Surface Area	109.19			
Large Duckweed (Spirodela polyrhiza)	N			
Large Scale Treatment Form	N			
Maintain navigational channel	Y			
Maintain private access - boating	Y			
Maintain private access - fishing	Y			
Method of Application	Backpack sprayer, 2" commercia			
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	Y			
Navitrol Landscape and Aquatic Herbicide	N			
Nutri-Sorb	N			
Orb-3 (general)	N			
Other Plants	White water lily, Cattails			
Overflow Controlled	N			
Permit County	Racine			
Permit End Year	2017			
Permit Latitude	42.830671			
Permit Longitude	-88.172274			
Permit PLSS Section	0704N20E			
Permit Start Year	2017			
Permit WBIC	761100			
Permit Year	2017			
Phycomycin SCP Algaecide and Oxidizer	Y			
Polaris	N			
Polaris AC	N			
Pond-Klear	N			
Pondweeds	N			
Private Pond	N			
ProcellaCOR EC	N			
Purple loosestrife (Lythrum salicaria)	Y			
Reed Canary Grass	N			
Reed Manna Grass	N			
Refuge Herbicide	Y			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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	Y			
Rodeo Herbicide	N			
Roundup Custom for Aquatic & Terrestrial Use	N			
SCI-62 Algicide / Bactericide	N			
Sculpin G Aquatic Herbicide	Y			
SeClear (general)	Y			
SeClear G Algaecide and Water Quality Enhancer	Y			
Sensitive Area	N			
Shoreklear-Plus Aquatic Herbicide	Y			
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	Y			
Stingray Aquatic Herbicide	N			
Surface Water Discharge	Y			
Symmetry NXG	Y			
TREATMENT_AREA	Long Lake			
Touchdown Pro	Y			
Treatment Area Greater Than 5%	Y			
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	N/A			
Yellow Floating Heart	N			

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<b>Action</b>		<b>Detailed Description</b>		<b>Start</b>	<b>End Date</b>	<b>Status</b>
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>		
	Yellow Iris	N				

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Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	05/04/2017	05/04/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	61		
	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	62.5		
	Aquathol Super K, # Acres	0		
	Aquathol Super K, # Pounds	0		
	Aquathol, # Acres Gallons	13.29		
	Aquathol, # Pounds	0		
	Avast Acres	0		
	Avast Gallons	0		
	CURLY_LEAF_PONDWEED_SITE	1, 2, 4-12		
	Captain XTR, # Acres	0		
	Captain XTR, # Gallons	0		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Common waterweed (Elodea canadensis)	SP		
	Contains Herbicide totals	Y		
	Control Comments	Whole lake 2,4-D = 0.182 ppm &		
	Coontail (Ceratophyllum demersum)	SP		
	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		

**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>
<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>	
	Citrine Pounds	0		
	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	21 days		
	EURASIAN_WATERMILFOIL_ SITE	1, 3-12		
	Endothol Acres	0		
	Endothol Liquid Acres	0		
	Endothol Liquid Gallons	0		
	Endothol Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	TS		
	Filamentous Algae	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		
	Imazapyr Acres	0		
	Imazapyr Gallons	0		
	Large Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		



## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
OTHER_Aquatics	TS			
OTHER_Aquatics_Desc	Starry stonewort			
OTHER_Aquatics_SITE	14			
Onsite Supervision	No			
Permit County	Racine			
Permit Year	2017			
Person Completing Form	Jeff Stelzer			
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			
Sonor AS Acres	0			
Touchdown Pro Acres	0			
Touchdown Pro Gallons	0			
Treatment Date	5/4/2017			
Treatment End Time	14:15			
Treatment Start Time	8:45			
Tribune Acres	0			
Tribune Gallons	0			
Vectobac Acres	0			
Vectobac Gallons	0			
Water Temperature	58.8			
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			

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<b>Action</b>		<b>Detailed Description</b>		<b>Start</b>	<b>End Date</b>	<b>Status</b>
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>		
	Water Use Restriction - None	N				
	Water Use Restriction - Other Irrigation	N				
	Water Use Restriction - Swimming	N				
	White water lily (Nymphaea odorata)	SP				
	Wind Direction	NE				
	Wind Speed	5-10				

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Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	05/04/2017	05/04/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	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	62.5		
	Aquathol Super K, # Acres	0		
	Aquathol Super K, # Pounds	0		
	Aquathol, # Acres Gallons	25.81		
	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	N		
	Control Comments	DUPLICATE RECORD		
	Copper Acres	1.97		
	Copper Liquid, # Acres	0		
	Copper Liquid, # Gallons	0		
	Copper Pounds	120		
	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	0		
	DMA 4 IVM Gallons	0		
	Diquat Acres	0		
	Diquat Gallons	0		
	Diquat Liquid Acres	0		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Diquat Pounds	0			
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			
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	Racine			
Permit Year	2017			
Person Completing Form	N/A			
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			

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Sculpin G Pounds	0			
SeClear Acres	0			
SeClear Gallons	0			
ShoreKlear Acres	0			
ShoreKlear Gallons	0			
Sonar AS Gallons	0			
Sonor AS Acres	0			
Touchdown Pro Acres	0			
Touchdown Pro Gallons	0			
Treatment Date Series	DUPLICATE RECORD			
Tribune Acres	0			
Tribune Gallons	0			
Vectobac Acres	0			
Vectobac Gallons	0			
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			

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Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	05/23/2017	05/23/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	62		
	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		
	CHARA_SITE	A,B,C,D		
	COONTAIL_SITE	A,B,C,D		
	CURLY_LEAF_PONDWEED_SITE	B		
	Captain XTR, # Acres	0.9		
	Captain XTR, # Gallons	8.5		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	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		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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		
	EURASIAN_WATERMILFOIL_ SITE	B,C		
	Endotholl Acres	0		
	Endotholl Liquid Acres	0		
	Endotholl Liquid Gallons	0		
	Endotholl Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	FLAMENTOUS_ALGAE_SITE	B,C,D		
	Filamentous Algae	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_SITE	B		
	Illinois pondweed (Potamogeton illinoensis)	SP		
	Imazapyr Acres	0		
	Imazapyr Gallons	0		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		

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Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
OTHER_Aquatics_Desc	Starry stonewort			
Onsite Supervision	No			
Permit County	Racine			
Permit Year	2017			
Person Completing Form	Jeff Stelzer			
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			
Sonor AS Acres	0			
Touchdown Pro Acres	0			
Touchdown Pro Gallons	0			
Treatment Date	5/23/2017			
Treatment End Time	10:49			
Treatment Start Time	9:25			
Tribune Acres	0			
Tribune Gallons	0			
Vectobac Acres	0			
Vectobac Gallons	0			
WHITE_WATER_LILY_SITE	A,C,D			
Water Temperature	60.5			
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			



## 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>
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>		
	Water Use Restriction - Other Irrigation	N				
	Water Use Restriction - Swimming	N				
	White water lily (Nymphaea odorata)	SP				
	Wind Direction	S				
	Wind Speed	5-10				

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	06/07/2017	06/07/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	75		
	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		
	Captain XTR, # Acres	0		
	Captain XTR, # Gallons	0		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	Copper Acres	1.41		
	Copper Liquid, # Acres	0		
	Copper Liquid, # Gallons	0		
	Copper Pounds	84		
	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	0		
	DMA 4 IVM Gallons	0		
	Diquat Acres	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	Diquat Gallons	0		
	Diquat Liquid Acres	0		
	Diquat Pounds	0		
	Endotholl Acres	0		
	Endotholl Liquid Acres	0		
	Endotholl Liquid Gallons	0		
	Endotholl Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	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 Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2017		
	Person Completing Form	Jeff Stelzer		
	Phycomycin Acres	0		
	Phycomycin Pounds	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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		
	Sogo pondweed (Stuckenia pectinata)	SP		
	Sonar AS Gallons	0		
	Sonor AS Acres	0		
	Touchdown Pro Acres	0		
	Touchdown Pro Gallons	0		
	Treatment Date	6/7/2017		
	Treatment End Time	12:47		
	Treatment Start Time	11:41		
	Tribune Acres	0		
	Tribune Gallons	0		
	Vectobac Acres	0		
	Vectobac Gallons	0		
	Water Temperature	71.2		
	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		
	White water lily (Nymphaea odorata)	SP		
	Wind Direction	E		
	Wind Speed	0-5		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	06/23/2017	06/23/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	79		
	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		
	Captain XTR, # Acres	2.16		
	Captain XTR, # Gallons	17.5		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	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		
	Citrine Ultra Acres	0		
	Citrine Ultra Gallons	0		
	DMA 4 IVM Acres	0		
	DMA 4 IVM Gallons	0		
	Diquat Acres	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	Diquat Gallons	0		
	Diquat Liquid Acres	0		
	Diquat Pounds	0		
	Endotholl Acres	0		
	Endotholl Liquid Acres	0		
	Endotholl Liquid Gallons	0		
	Endotholl Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	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 Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2017		
	Person Completing Form	Jeff Stelzer		
	Phycomycin Acres	0		
	Phycomycin Pounds	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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		
	Sogo pondweed (Stuckenia pectinata)	SP		
	Sonar AS Gallons	0		
	Sonor AS Acres	0		
	Touchdown Pro Acres	0		
	Touchdown Pro Gallons	0		
	Treatment Date	6/23/2017		
	Treatment End Time	13:52		
	Treatment Start Time	11:45		
	Tribune Acres	0		
	Tribune Gallons	0		
	Vectobac Acres	0		
	Vectobac Gallons	0		
	Water Temperature	74.5		
	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		
	White water lily (Nymphaea odorata)	SP		
	Wind Direction	NW		
	Wind Speed	10-15		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	06/23/2017	06/23/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	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	2.16		
	Captain XTR, # Gallons	17.5		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	N		
	Control Comments	DUPLICATE RECORD		
	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		
	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		



## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Diquat Pounds	0			
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			
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	Racine			
Permit Year	2017			
Person Completing Form	N/A			
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			

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Sculpin G Pounds	0			
SeClear Acres	0			
SeClear Gallons	0			
ShoreKlear Acres	0			
ShoreKlear Gallons	0			
Sonar AS Gallons	0			
Sonor AS Acres	0			
Touchdown Pro Acres	0			
Touchdown Pro Gallons	0			
Treatment Date Series	DUPLICATE RECORD			
Tribune Acres	0			
Tribune Gallons	0			
Vectobac Acres	0			
Vectobac Gallons	0			
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			

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	07/20/2017	07/20/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	80		
	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		
	Captain XTR, # Acres	0		
	Captain XTR, # Gallons	0		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	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		
	Citrine Ultra Acres	0		
	Citrine Ultra Gallons	0		
	DMA 4 IVM Acres	0		
	DMA 4 IVM Gallons	0		
	Diquat Acres	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	Diquat Gallons	0		
	Diquat Liquid Acres	0		
	Diquat Pounds	0		
	Endotholl Acres	0		
	Endotholl Liquid Acres	0		
	Endotholl Liquid Gallons	0		
	Endotholl Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	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 Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2017		
	Person Completing Form	Eric Rudzinski		
	Phycomycin Acres	0		
	Phycomycin Pounds	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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		
	Sogo pondweed (Stuckenia pectinata)	SP		
	Sonar AS Gallons	0		
	Sonor AS Acres	0		
	Touchdown Pro Acres	0		
	Touchdown Pro Gallons	0		
	Treatment Date	7/20/2017		
	Treatment End Time	11:44		
	Treatment Start Time	9:30		
	Tribune Acres	0		
	Tribune Gallons	0		
	Vectobac Acres	0		
	Vectobac Gallons	0		
	Water Temperature	78.5		
	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		
	White water lily (Nymphaea odorata)	SP		
	Wind Direction	NW		
	Wind Speed	5-10		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	08/11/2017	08/11/2017	COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	73		
	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		
	Captain XTR, # Acres	0.78		
	Captain XTR, # Gallons	5		
	Clearcast Acres	0		
	Clearcast Gallons	0		
	Clearigate Acres	0		
	Clearigate Gallons	0		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	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		
	Citrine Ultra Acres	0		
	Citrine Ultra Gallons	0		
	DMA 4 IVM Acres	0		
	DMA 4 IVM Gallons	0		
	Diquat Acres	0		

**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>
<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>	
	Diquat Gallons	0		
	Diquat Liquid Acres	0		
	Diquat Pounds	0		
	Endotholl Acres	0		
	Endotholl Liquid Acres	0		
	Endotholl Liquid Gallons	0		
	Endotholl Pounds	0		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	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 Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2017		
	Person Completing Form	Eric Rudzinski		
	Phycomycin Acres	0		
	Phycomycin Pounds	0		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
	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		
	Sogo pondweed (Stuckenia pectinata)	SP		
	Sonar AS Gallons	0		
	Sonor AS Acres	0		
	Touchdown Pro Acres	0		
	Touchdown Pro Gallons	0		
	Treatment Date	8/11/2017		
	Treatment End Time	11:49		
	Treatment Start Time	10:56		
	Tribune Acres	0		
	Tribune Gallons	0		
	Vectobac Acres	0		
	Vectobac Gallons	0		
	Water Temperature	74.4		
	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		
	White water lily (Nymphaea odorata)	SP		
	Wind Direction	NW		
	Wind Speed	5-15		



## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	04/16/2018	04/30/2018	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		
	CO - # days	10		
	CO - 15 days	Y		
	CO - Date Sent	4/30/2018		
	CO-Date_Received	4/16/2018		
	CONTROL_OTHER	Y		
	CONTROL_OTHER_LIST	Aesthetics		
	Category 5 Certification Number	N/A		
	Chemical Permit ID	6169		
	Chemicals - Approved	N/A		
	Comments	N/A		
	Common arrowhead (Sagittaria latifolia)	N		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Control - Algae	Y		
	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)	N		
	Entered in SharePoint	Y		
	Estimated Acres	10		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	270		
	Field - # days	Y		
	Field Issued By	Craig_Helker		
	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	Y		
	Maintain private access - boating	Y		
	Maintain private access - fishing	N		

## Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Muskgrasses (Chara )	N			
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Craig Helker			
Other Plants	SSW			
PLSS_DIRECTION	E			
PLSS_RANGE	20			
PLSS_SECTION	05			
PLSS_TOWNSHIP	04			
Payment Number	14828			
Permit County	Racine			
Permit End Year	2018			
Permit Latitude	42.830671			
Permit Longitude	-88.172274			
Permit PLSS Section	5-7 T4N R20E			
Permit Start Year	2018			
Permit WBIC	761100			
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	Long Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			

**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		07/22/2019		COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	71		
	Air Temperature Units	F		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	SP		
	Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
	Large Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry Stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2018		
	Person Completing Form	Eric Rudzinski		
	Treatment Date	06/06/2018		
	Treatment End Time	2:00		
	Treatment Start Time	1:30		
	Water Temperature	69.7		
	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	SW		
	Wind Speed	10-15		

**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		07/22/2019		COMPLETE
<b>Details:</b>	<b>Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
	Air Temperature	75		
	Air Temperature Units	F		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	Curly-leaf pondweed (Potamogeton crispus)	SP		
	Duration of Chemical Residualts	5 days		
	Eurasian water-milfoil (Myriophyllum spicatum)	SP		
	Filamentous Algae	SP		
	Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
	Large Duckweed (Spirodela polyrhiza)	SP		
	Muskgrasses (Chara )	SP		
	OTHER_Aquatics	TS		
	OTHER_Aquatics_Desc	Starry Stonewort		
	Onsite Supervision	No		
	Permit County	Racine		
	Permit Year	2018		
	Person Completing Form	Eric Rudzinski		
	Treatment Date	06/25/2018		
	Treatment End Time	6:05		
	Treatment Start Time	4:53		
	Water Temperature	73.5		
	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	SE		
	Wind Speed	10-15		

**Monitoring Stations**

<b>Station ID</b>	<b>Name</b>	<b>Comments</b>
10005277	Lake Kec-Nong-Ga-Mong	
10017726	Long Lake -- Kec-Nong-Ga-Mong Lake -- N End	

**Assessment Units**

## Wisconsin Department of Natural Resources SWIMS Project Summary

WBIC	Segment	Local Name	Official Name
760700	1	Unnamed Stream	Unnamed
761100	1	Long Lake	Long 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	Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
07/06/2015	COMPLETE		10017726	Long Lake -- Kec-Nong-Ga-Mong Lake -- N End
07/15/2015 13:00	COMPLETE		10005277	Lake Kec-Nong-Ga-Mong

### Documents

Title	Description	Author	Published	Comments
Long Lake Starry Stonewort Grant Summary	Long Lake is a 109-acre lake located within U.S. Public Land Survey Township 4 North, Range 20 East, Sections 5, 6, and 7, Town of Norway, in Racine County, Wisconsin. The Lake is a valuable natural resource offering a variety of recreational and related opportunities to the resident community and its visitors. In the summer of 2015, the recreational and aesthetic values of Long Lake were threatened by the discovery of Starry Stonewort ( <i>Nitellopsis obtusa</i> ) southeast of the boat launch by the WDNR. The Long Lake Protection District (LLPD) took immediate steps to assess its extent by applying for back to back Aquatic Invasive Species (AIS) Rapid Response Grants and contracting with Lake and Pond Solutions Co. This plan is prepared at the request of the LLPD and the WDNR to assist lake managers and regulatory agencies in directing future plant management activities.	Lake and Pond Solutions Co.	12/21/2017	

### Budget

Combined Budgets:  
 Combined SLOH:  
 Combined Total:

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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