

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ACEI18116
Name: DEER LAKE IMPROVEMENT ASSOCIATION: Deer Lake Curly Leaf Pondweed Control
Type: Aquatic Invasives Grant
Subtype: Aquatic Invasives Control
Status: COMPLETE
Start Date: 04/15/2016
End Date: 06/30/2019
Purpose: Deer Lake Improvement Association is sponsoring a 2-yr project to implement approved activities from the Deer Lake Aquatic Plant Management Plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant & turion monitoring reports, management/treatment summaries.

Specific project activities include: 1) Curly-leaf pondweed herbicide control; 2) Pre-post treatment aquatic plant monitoring; 3) Turion monitoring.

Special Conditions: 1) WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for aquatic plant monitoring; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) AIS monitoring and watercraft inspection personnel shall be trained and follow DNR approved 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 DEER LAKE IMPROVEMENT ASSOCIATION
Outcome:
Study Design:
QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Deer Lake Improvement Assc	GRANT_RECIPII	ACTIVE	06/01/2016		Deer Lake Improvement Association	

Project Statuses

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

Actions

Action	Detailed Description	Start	End Date	Status
--------	----------------------	-------	----------	--------

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	02/08/2016	10/01/2016	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		
	CHEMICAL_PERMIT_ID	2387		
	CO - 15 days	Y		
	CO - Date Sent	2/8/2016		
	CO-Date_Received	2/8/2016		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	23.35		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Expiration Date	10/1/2016		
	Fee	620		
	Field - 15 days	N		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - fishing	N			
Muskgrasses (Chara)	N			
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Sent to Mark			
Payment Number	1701			
Permit County	Polk			
Permit End Year	2016			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2016			
Permit WBIC	2619400			
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	Deer 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

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	02/08/2016	10/01/2016	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		
	CHEMICAL_PERMIT_ID	2387		
	CO - 15 days	Y		
	CO - Date Sent	2/8/2016		
	CO-Date_Received	2/8/2016		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	23.35		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Expiration Date	10/1/2016		
	Fee	620		
	Field - 15 days	N		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - fishing	N			
Muskgrasses (Chara)	N			
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Sent to Mark			
Payment Number	1701			
Permit County	Polk			
Permit End Year	2016			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2016			
Permit WBIC	2619400			
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	Deer Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			
Grant Awarded	Grant ACEI18116 awarded	04/15/2016	06/30/2019	COMPLETE

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	03/14/2017	10/01/2017	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	93-013996-011211		
	CHEMICAL_PERMIT_ID	4034		
	CO - 15 days	N		
	CO - Date Sent	3/14/2017		
	CO-Date_Received	3/14/2017		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	24		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Expiration Date	10/1/2017		
	Fee	620		
	Field - 15 days	N		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - fishing	N			
Muskgrasses (Chara)	N			
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark			
Payment Number	2406			
Permit County	Polk			
Permit End Year	2017			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2017			
Permit WBIC	2619400			
Permit Year	2017			
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	Deer 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

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	03/14/2017	10/01/2017	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	93-013996-011211		
	CHEMICAL_PERMIT_ID	4034		
	CO - 15 days	N		
	CO - Date Sent	3/14/2017		
	CO-Date_Received	3/14/2017		
	CONTROL_INVASIVES	N		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	24		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Expiration Date	10/1/2017		
	Fee	620		
	Field - 15 days	N		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - fishing	N			
Muskgrasses (Chara)	N			
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark			
Payment Number	2406			
Permit County	Polk			
Permit End Year	2017			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2017			
Permit WBIC	2619400			
Permit Year	2017			
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	Deer 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

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record	Chemical treatment details	05/05/2017	05/05/2017	COMPLETE
Details:	Parameter	Value/Amount	Units	Comments
	24D Granular, # Acres	0		
	24D Granular, # Pounds	0		
	24D Liquid, # Acres	0		
	24D Liquid, # Pounds	0		
	Air Temperature	55		
	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	201		
	Aquathol Super K, # Acres	0		
	Aquathol Super K, # Pounds	0		
	Aquathol, # Acres Gallons	22.6		
	Aquathol, # Pounds	0		
	Avast Acres	0		
	Avast Gallons	0		
	CHEMICAL_PERMIT_ID	4034		
	CHEMICAL_TREATMENT_ID	6467		
	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		
	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**

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		
	Did Treatments Occur	Y		
	Diquat Acres	0		
	Diquat Gallons	0		
	Diquat Liquid Acres	0		
	Diquat Pounds	0		
	Endothol Acres	0		
	Endothol Liquid Acres	0		
	Endothol Liquid Gallons	0		
	Endothol 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		
	Nautique Acres	0		
	Nautique Gallons	0		
	Navigate Acres	0		
	Navigate, # Pounds	0		
	Onsite Supervision	N		
	Permit County	Polk		
	Permit Year	2017		
	Person Completing Form	N/A		
	Phycomycin Acres	0		
	Phycomycin Pounds	0		
	Polaris Acres	0		
	Polaris Gallons	0		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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	5/5/2017			
Tribune Acres	0			
Tribune Gallons	0			
Vectobac Acres	0			
Vectobac Gallons	0			
Water Temperature	51			
Water Temperature Units	F			
Wind Direction	N/A			
Wind Speed	N/A			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	02/28/2018	02/28/2018	APPROVED
Details:	Parameter	Value/Amount	Units	Comments
	Broad-leaved cattail (Typha latifolia)	N		
	Business Location License	N/A		
	CHEMICAL_PERMIT_ID	5517		
	CO - # days	0		
	CO - 15 days	Y		
	CO - Date Sent	2/28/2018		
	CO-Date_Received	2/28/2018		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	24		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	620		
	Field - # days	Y		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark Sundeen			
Other Plants	CLP			
Payment Number	1834			
Permit County	Polk			
Permit End Year	2018			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2018			
Permit WBIC	2619400			
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	Deer 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**

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	02/28/2018	02/28/2018	APPROVED
Details:	Parameter	Value/Amount	Units	Comments
	Broad-leaved cattail (Typha latifolia)	N		
	Business Location License	N/A		
	CHEMICAL_PERMIT_ID	5517		
	CO - # days	0		
	CO - 15 days	Y		
	CO - Date Sent	2/28/2018		
	CO-Date_Received	2/28/2018		
	CONTROL_OTHER	N		
	Category 5 Certification Number	N/A		
	Chemicals - Approved	Aquathol K		
	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	24		
	Eurasian water-milfoil (Myriophyllum spicatum)	N		
	Fee	620		
	Field - # days	Y		
	Field Issued By	Mark_Sundeen		
	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		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
NUISANCE_CAUSED_OTHER	N			
Native Plants	N			
Next Steps	Mark Sundeen			
Other Plants	CLP			
Payment Number	1834			
Permit County	Polk			
Permit End Year	2018			
Permit Latitude	45.4084			
Permit Longitude	-92.5493			
Permit PLSS Section	25 35N18W			
Permit Start Year	2018			
Permit WBIC	2619400			
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	Deer 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

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical permit details	02/21/2019	02/21/2019	APPROVED
Details:	Parameter	Value/Amount	Units	Comments
	APM Plan	Y		
	Algae	N		
	Algimycin PWF Algaecide / Cyanobactericide	N		
	Alternative - Drawdown	N		
	Alternative - Dredging	N		
	Alternative - Manual Removal	N		
	Alternative - Mechanical Harvesting	N		
	Alternative - Nutrient Controls	Y		
	Alternative - Sediment Screens	N		
	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		
	CHEMICAL_PERMIT_ID	0		
	CO - # days	1		
	CO - Date Sent	02/21/2019		
	CONTROL_INVASIVES	Y		
	CONTROL_OTHER	N		
	Captain Liquid Copper Algaecide	N		
	Captain XTR Liquid Copper Algaecide	N		
	Category 5 Certification Number	61742		
	Chemicals - Approved	Aquathol K		
	Chemicals Permitted Previous Year	All		
	Chinook	N		
	Clearcast (general)	N		
	Clearigate	N		
	Clipper Herbicide	N		
	Clipper SC Aquatic Herbicide	N		
	Comments	MISSING - Large-Scale Treatment		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Common/Glossy Buckthorn	N		
	Control - Algae	N		

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

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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	20			
Eurasian water-milfoil (Myriophyllum spicatum)	N			
Fee	520			
Field - Date Issued	03/12/2019			
Field - Date Received	02/21/2019			
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	812			
Large Duckweed (Spirodela polyrhiza)	N			
Maintain navigational channel	N			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - boating	N			
Maintain private access - fishing	N			
Method of Application	Subsurface application using w			
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			
Payment Number	1873			
Permit County	Polk			
Permit End Year	2019			
Permit Latitude	45.4084000			
Permit Longitude	-92.5493000			
Permit PLSS Section	25 T35N R18W			
Permit Start Year	2019			
Permit WBIC	2619400			
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			
Renovate OTF Aquatic Herbicide	N			
Reward Landscape and Aquatic Herbicide	N			
Rodeo Herbicide	N			

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

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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-2019-49-2033			
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	Deer 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	N			
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N			
Wind Direction	61742			
Yellow Floating Heart	N			
Yellow Iris	N			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Permit Request	Chemical permit details	02/21/2019	02/21/2019	APPROVED
Details:	Parameter	Value/Amount	Units	Comments
	APM Plan	Y		
	Algae	N		
	Algimycin PWF Algaecide / Cyanobactericide	N		
	Alternative - Drawdown	N		
	Alternative - Dredging	N		
	Alternative - Manual Removal	N		
	Alternative - Mechanical Harvesting	N		
	Alternative - Nutrient Controls	Y		
	Alternative - Sediment Screens	N		
	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		
	CHEMICAL_PERMIT_ID	0		
	CO - # days	1		
	CO - Date Sent	02/21/2019		
	CONTROL_INVASIVES	Y		
	CONTROL_OTHER	N		
	Captain Liquid Copper Algaecide	N		
	Captain XTR Liquid Copper Algaecide	N		
	Category 5 Certification Number	61742		
	Chemicals - Approved	Aquathol K		
	Chemicals Permitted Previous Year	All		
	Chinook	N		
	Clearcast (general)	N		
	Clearigate	N		
	Clipper Herbicide	N		
	Clipper SC Aquatic Herbicide	N		
	Comments	MISSING - Large-Scale Treatment		
	Common reed (Phragmites australis)	N		
	Common waterweed (Elodea canadensis)	N		
	Common/Glossy Buckthorn	N		
	Control - Algae	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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	20			
Eurasian water-milfoil (Myriophyllum spicatum)	N			
Fee	520			
Field - Date Issued	03/12/2019			
Field - Date Received	02/21/2019			
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	812			
Large Duckweed (Spirodela polyrhiza)	N			
Maintain navigational channel	N			

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

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
Maintain private access - boating	N			
Maintain private access - fishing	N			
Method of Application	Subsurface application using w			
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			
Payment Number	1873			
Permit County	Polk			
Permit End Year	2019			
Permit Latitude	45.4084000			
Permit Longitude	-92.5493000			
Permit PLSS Section	25 T35N R18W			
Permit Start Year	2019			
Permit WBIC	2619400			
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			
Renovate OTF Aquatic Herbicide	N			
Reward Landscape and Aquatic Herbicide	N			
Rodeo Herbicide	N			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
Details: Parameter	Value/Amount	Units	Comments	
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-2019-49-2033			
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	Deer 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	N			
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N			
Wind Direction	61742			
Yellow Floating Heart	N			
Yellow Iris	N			

Wisconsin Department of Natural Resources SWIMS Project Summary

Action	Detailed Description	Start	End Date	Status
APM Chemical Treatment Record		06/28/2019		COMPLETE
Details:	Parameter	Value/Amount	Units	Comments
	Air Temperature	65		
	Air Temperature Units	F		
	COONTAIL_SITE	abcd		
	CURLY_LEAF_PONDWEED_SITE	all		
	Contains Herbicide totals	Y		
	Coontail (Ceratophyllum demersum)	SP		
	Curly-leaf pondweed (Potamogeton crispus)	TS		
	Did Treatments Occur	Y		
	Duration of Chemical Residualts	24 hours		
	FLAMENTOUS_ALGAE_SITE	all		
	Filamentous Algae	SP		
	Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
	Permit County	Polk		
	Permit Year	2018		
	Person Completing Form	Dale Dressel		
	Treatment Date	05/21/2018		
	Treatment End Time	12:00		
	Treatment Start Time	9:00		
	WHITE_WATER_LILY_SITE	abcd		
	Water Temperature	58.2		
	Water Temperature Units	F		
	Wind Direction	E		
	Wind Speed	0-4		

Monitoring Stations

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

Assessment Units

WBIC	Segment	Local Name	Official Name
2619400	1	Deer Lake	Deer Lake

Lab Account Codes

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

Forms

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

Methods

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

Fieldwork Events

Wisconsin Department of Natural Resources SWIMS Project Summary

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

Documents

Title	Description	Author	Published	Comments
Herbicide Treatment Analysis for Potamogeton crispus 2016	On April 29, 2016 22.6 acres of Potamogeton crispus-curly leaf pondweed (CLP) were treated with endothall(broad spectrum herbicide) to reduce the frequency and density of the CLP within 5 different beds. An April 21, 2016 pretreatment survey revealed CLP present in 47.5% of the sample points within the delineated beds. A June 10, 2016 post treatment survey revealed a frequency of 13.7% of the same sample points within the delineated beds. The treatment resulted in a frequency reduction of 71.2%. This reduction was statistically significant ($P=9.5 \times 10^{-10}$). Comparing the pretreatment survey results in 2015 to the pretreatment survey results in 2016, a slight increase in CLP frequency of occurrence in the five beds occurred. The frequency of occurrence after treatment (post treatment survey) in 2015 compared to 2016 showed an increase from 2.1% to 13.7%. The mean density increased from 0.03 in 2015 to 0.2 in 2016 (scale of 0-3). There was a statistically significant reduction (chi-square analysis) in two native species and a statistically significant increase in two other native species from 2015 to 2016. The turion analysis showed an increase in turion density in three of the five treatment beds. Some increase is likely due to increased CLP growth after treatment. It also demonstrates that CLP growth will likely be returning with fairly high density in these beds in 2017.	Ecological Integrity Service	10/01/2016	
Herbicide Treatment Analysis for Potamogeton crispus 2017	On May 5, 2017 22.6 acres of Potamogeton crispus-curly leaf pondweed (CLP) were treated with endothall(broad spectrum herbicide) to reduce the frequency and density of the CLP within 5 different beds. The treatment resulted in a significant reduction (based upon chi-square analysis) comparing the frequency of occurrence before treatment from April 2017 to after treatment surveyed June 2017. There was also a significant reduction comparing the post treatment survey frequency in 2016 to the post treatment frequency in 2017. There was a slight reduction (not significant) from the 2016 to 2017 in pretreatment frequency. There was a significant reduction in three native species and an increase in one	Ecological Integrity Service	10/01/2017	

Wisconsin Department of Natural Resources SWIMS Project Summary

Title	Description	Author	Published	Comments
	species. Only 0.04 acres of CLP were observed outside of the treatment areas in the entire lake. The turion analysis resulted in a mean turion density decrease in all beds from 84.7 turions/m2 in 2016 to 41.7 turions/m2 in 2017.			

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

Funding

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