

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ACEI21818

Name: SPOONER LAKE DISTRICT: Spooner Lake Curly Leaf Pondweed & Knotweed Control

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Control

Status: COMPLETE

Start Date: 4/15/2018

End Date: 12/31/2021

Purpose: Spooner Lake Protection & Rehabilitation District is sponsoring a project to implement their approved aquatic plant management activities. Activities include: curlyleaf pondweed control, professional and volunteer AIS monitoring, and reporting.

Final deliverables include: summaries and reports of each grant activity, as described in the application; submission of collected data, evaluation, and results; and examples of education and outreach materials.

This scope does not supersede or negate activities described in the grant application and proposal.

Objective:

Comments: Grantee is SPOONER LAKE DISTRICT

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Spooner Lake District,	GRANT_RECIPIENT	ACTIVE	4/15/2018	12/31/2019	Spooner Lake District	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start Date	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	4/12/2018	4/27/2018	APPROVED

Details: Parameter	Value/Amount	Units	Comments
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	11		
CO - 15 days	Y		
CO - Date Sent	4/27/2018		
CO-Date_Received	4/12/2018		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		

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Details: Parameter	Value/Amount	Units	Comments
Chemical Permit ID	6147		
Chemicals - Approved	N/A		
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)	N		
Entered in SharePoint	N		
Estimated Acres	21		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	570		
Field - # 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		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Mark Sundeen		
Other Plants	Algae		

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Details: Parameter	Value/Amount	Units	Comments	
PLSS_DIRECTION	W			
PLSS_RANGE	12			
PLSS_SECTION	26			
PLSS_TOWNSHIP	39			
Payment Number	WP-00012643			
Permit County	Washburn			
Permit End Year	2018			
Permit Latitude	45.4978			
Permit Longitude	-91.483470			
Permit PLSS Section	26 T39 R12W			
Permit Start Year	2018			
Permit WBIC	2685200			
Pithophora	N			
Planktonic Algae	N			
Private Pond	N			
Purple loosestrife (Lythrum salicaria)	N			
SharePoint Submittal	Y			
Softstem bulrush (Schoenoplectus tabernaemontani)	N			
Sogo pondweed (Stuckenia pectinata)	N			
TREATMENT_AREA	Spooner Lake			
Treatment Date	N			
Treatment Date	N			
Treatment Record - Received	N			
Treatment Record - Scanned	N			
Waterbody Type	LAKE			
APM Chemical Permit Request	Chemical Permit Details	4/12/2018	4/27/2018	APPROVED

Details: Parameter	Value/Amount	Units	Comments
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	11		
CO - 15 days	Y		
CO - Date Sent	4/27/2018		
CO-Date_Received	4/12/2018		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	6146		
Chemicals - Approved	N/A		

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Details: Parameter	Value/Amount	Units	Comments
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)	N		
Entered in SharePoint	N		
Estimated Acres	28		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	720		
Field - # 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		
Maintain private access - fishing	N		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Next Steps	Mark Sundeen		
Other Plants	Curly-leaf pondweed		
PLSS_DIRECTION	W		
PLSS_RANGE	12		

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Details: Parameter	Value/Amount	Units	Comments
PLSS_SECTION	26		
PLSS_TOWNSHIP	39		
Payment Number	WP-00012644		
Permit County	Washburn		
Permit End Year	2018		
Permit Latitude	45.4978		
Permit Longitude	-91.483470		
Permit PLSS Section	26 T39 R12W		
Permit Start Year	2018		
Permit WBIC	2685200		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
SharePoint Submittal	Y		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		
Sogo pondweed (Stuckenia pectinata)	N		
TREATMENT_AREA	Spooner Lake		
Treatment Date	N		
Treatment Date	N		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

Grant Awarded	Grant ACEI21818 awarded	4/15/2018	12/31/2019	COMPLETE
APM Chemical Permit Request	Chemical permit details	6/11/2019	6/11/2019	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	N		
Alternative - Other	N		
Alternative - Sediment Screens	N		

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Details: Parameter	Value/Amount	Units	Comments
Alternative - Why Not Drawdown	Not Applicable		
Alternative - Why Not Dredging	Not Applicable		
Alternative - Why Not Manual	Too large of an area		
Alternative - Why Not Mechanical	Not Applicable		
Alternative - Why Not Nutrient Control	Not a control option for immediate concern		
Alternative - Why Not Other	Not Applicable		
Alternative - Why Not Sediment Screens	Not Applicable		
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	93-006836-006558		
CO - # days	0		
CO – Date Sent	06/11/2019		
CONTROL_INVASIVES	N		
CONTROL_OTHER	Y		
Captain Liquid Copper Algaecide	N		
Captain XTR Liquid Copper Algaecide	N		
Category 5 Certification Number	143379-CA		
Chemical Permit ID	0		
Chemicals - Approved	Dibrox, Mizzen and Aquathol K		
Chemicals Permitted Previous Year	All		
Chinook	N		
Clearcast (general)	N		
Clearigate	N		
Clipper Herbicide	N		
Clipper SC Aquatic Herbicide	N		
Common reed (Phragmites australis)	N		

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Details: Parameter	Value/Amount	Units	Comments
Common waterweed (Elodea canadensis)	N		
Common/Glossy Buckthorn	N		
Control - Algae	Y		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
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	5.50964187327824		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	170		
Field - Date Issued	07/01/2019		
Field - Date Received	06/11/2019		
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		

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Details: Parameter	Value/Amount	Units	Comments
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	6		
Large Duckweed (Spirodela polyrhiza)	N		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	Injection		
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		
Other Plants	Algae, coontail, elodia, narrow leaf pond weed		
Overflow Controlled	Y		
PLSS_DIRECTION	W		
PLSS_RANGE	12		
PLSS_SECTION	26		
PLSS_TOWNSHIP	39		
Payment Number	WP-00018867		
Permit County	Washburn		
Permit End Year	2019		
Permit Latitude	45.83977950		
Permit Longitude	-91.82473260		
Permit PLSS Section	2639N12W		
Permit Start Year	2019		
Permit WBIC	2685200		

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Details: Parameter	Value/Amount	Units	Comments
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		
Restricted Use License	143379-CA		
Reward Landscape and Aquatic Herbicide	N		
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		
SP_Document_ID	YTHQS767HR6T-42-541585		
Sculpin G Aquatic Herbicide	N		
SeClear (general)	N		
SeClear G Algaecide and Water Quality Enhancer	N		
Sensitive Area	N		
SharePoint_Number	AP-IP-NO-2019-66-X06-11T10-42-26		
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		

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Details: Parameter	Value/Amount	Units	Comments
Sonar RTU Aquatic Weed Herbicide	N		
Sonar SRP Aquatic Herbicide	N		
SonarOne Aquatic Herbicide	N		
Starry Stonewort	N		
Stingray Aquatic Herbicide	N		
Surface Water Discharge	N		
Symmetry NXG	N		
TREATMENT_AREA	Spooner		
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	143379-CA		
Yellow Floating Heart	N		
Yellow Iris	N		

Monitoring Stations

Station ID	Name	Comments
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Assessment Units

WBIC	Segment	Local Name	Official Name
2685200	1	Spooner Lake	Spooner Lake
2685400	1	Little Spooner Lake	Little Spooner Lake
2685500	1	Crystal Brook	Crystal Brook

Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
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Methods

Method Code	Method Description
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Fieldwork Events

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Start Date	Status	Field ID	Station ID	Station Name
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Documents

Title	Description	Author	Published	Comments
Herbicide Treatment Analysis-Potamogeton crispus, Spooner Lake Washburn County WI 2017	On May 8 and 10, 2017 an herbicide treatment with endothall on five Potamogeton crispus-Curly leaf pondweed (CLP) beds occurred totaling 21.34 acres. A pretreatment survey and post treatment survey revealed a statistically significant reduction in the CLP after treatment (comparing the 2017 pretreatment CLP frequency to the 2017 post treatment CLP frequency) from 70.4% to 12.0% frequency of occurrence. The 2017 post treatment CLP frequency of occurrence was higher than the 2016 post treatment CLP frequency, from 4.6% in 2016 to 17.6% in 2017. The pretreatment survey from 2016 compared to the pretreatment survey from 2017 showed a small increase from 48.1% in 2016 to 54.0% in 2017. There was one native plant species with a significant reduction and one native species with a significant increase. The 2017 turion analysis resulted in an increase in turion density from 2016 (38.1 turions/m ²) to 2017 (71.2 turions/m ²). A whole lake meander survey was conducted for CLP and a new bed of CLP was located in the main lake basin. Other CLP locations from 2016 were not present in 2017.	Ecological Integrity Service, LLC	1/1/2017	
Spooner Lake 2018 Potential CLP Beds	CLP plant map 2018.		1/1/2018	
Spooner Lake Curly Leaf Pondweed and Knotweed Control Application Checklist	Surface Water Grant Application Checklist. Form 8700-284C (R 9/16)	Spooner Lake Protection and Rehabilitation District	2/13/2018	
Spooner Lake Public Access Map	Map of public access.		1/1/2018	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

7/5/2024

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Organization	Source	Type	Amount	Start Date	End Date
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