

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: ACEI18416

Name: NORTH & SOUTH TWIN LAKES RIPARIAN ASSN: North & South Twin Lakes EWM Control & Prevention Project

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Control

Status: COMPLETE

Start Date: 4/15/2016

End Date: 12/31/2018

Purpose: North and South Twin Lakes Riparian Association is sponsoring an ACEI grant on North and South Twin Lakes, in Vilas County. This project will focus on EWM management.

Project activities include: 1) Annual professional hand-harvesting of EWM; 2) Herbicide treatments of EWM; 3) Herbicide concentration monitoring; 4) Pre/post treatment monitoring and analysis; 5) Annual EWM peak biomass survey, analysis and mapping; 6) Annual volunteer AIS monitoring; 7) South Twin Lake point-intercept (PI) aquatic plant survey; 8) Develop annual treatment report and updated management plan.

Project deliverables include: 1) Manual removal and chemical control of EWM; 2) Pre/post treatment, herbicide monitoring, peak biomass, and PI survey data; 3) Treatment report and updated management plan.

Specific Conditions for this project: Annual reports and updated management plan need Dept review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) copy of all annual reports, all maps, all GIS, and survey data.

Objective:

Comments: Grantee is NORTH & SOUTH TWIN LAKES RIPARIAN ASSN

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Bailey, Robert G	APPLICANT	ACTIVE	6/2/2016			
Heath, Eddie	LEAD_EQUIPMENT	ACTIVE	6/2/2016		Onterra, LLC	
North & South Twin Lakes Ripar	GRANT_RECIPIENT	ACTIVE	6/1/2016		North & South Twin Lakes Riparian Association	
State Lab of Hygiene,	LABORATORY	ACTIVE	6/2/2016		State Lab of Hygiene	

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	4/14/2016	10/1/2017	APPROVED

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Details: Parameter	Value/Amount	Units	Comments
APM Plan	N		
APM Plan Agree	N		
Advance Notification	N		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	2		
CO - 15 days	Y		
CO – Date Sent	4/18/2016		
CO-Date_Received	4/14/2016		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	3073		
Chemicals - Approved	Liquid 2,4 D applied at .35 ppm lake wide		
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	161.25		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Expiration Date	10/1/2016		
Fee	1270		
Field - 15 days	N		
Field Issued By	Kevin_Gauthier		
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area			

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Details: Parameter		Value/Amount	Units	Comments		
	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	Sent to Kevin				
	Payment Number	1600				
	Permit County	Vilas				
	Permit End Year	2016				
	Permit Latitude	46.0320				
	Permit Longitude	-89.1708				
	Permit PLSS Section	18 41N11E				
	Permit Start Year	2016				
	Permit WBIC	1623700				
	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	South Twin Lake				
	Treatment Date	N				
	Treatment Date	N				
	Treatment Record - Received	N				
	Treatment Record - Scanned	N				
	Waterbody Type	LAKE				
Grant Awarded		South Twin Lake	4/15/2016	6/30/2018	COMPLETE	
APM Chemical Treatment Record		Chemical treatment details	6/7/2016	6/7/2016	COMPLETE	
Details: Parameter		Value/Amount	Units	Comments		
	Aqua-Pro Acres	0				

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Details: Parameter	Value/Amount	Units	Comments
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	N		
Control Comments	DUPLICATE RECORD		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	161.25		
DMA 4 IVM Gallons	1817		

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Details: Parameter	Value/Amount	Units	Comments
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
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	Vilas		
Permit Year	2016		
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		

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Details: Parameter	Value/Amount	Units	Comments		
Reward Gallons	0				
Reward Liquid Acres	0				
Reward Pounds	0				
Rodeo Acres	0				
Rodeo Gallons	0				
SCI-62 Acres	0				
SCI-62 Gallons	0				
Sculpin G Acres	0				
Sculpin G Pounds	0				
SeClear Acres	0				
SeClear Gallons	0				
ShoreKlear Acres	0				
ShoreKlear Gallons	0				
Sonar AS Gallons	0				
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				
APM Chemical Treatment Record	Chemical treatment details		6/7/2016	6/7/2016	COMPLETE

Details: Parameter	Value/Amount	Units	Comments		
Aqua-Pro Acres	0				
Aqua-Pro Gallons	0				
Aquaneat Acres	0				
Aquaneat Gallons	0				
Aquashade Acres	0				
Aquashade Pounds	0				

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Details: Parameter	Value/Amount	Units	Comments
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	N		
Control Comments	DUPLICATE RECORD		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	161.25		
DMA 4 IVM Gallons	1805		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Endotholl Acres	0		

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Details: Parameter	Value/Amount	Units	Comments
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Vilas		
Permit Year	2016		
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		

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Details: Parameter	Value/Amount	Units	Comments
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 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		

APM Chemical Treatment Record	Chemical treatment details	6/10/2016	6/10/2016	COMPLETE
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Details: Parameter	Value/Amount	Units	Comments
Air Temperature	48-54		
Air Temperature Units	F		
Aqua-Pro Acres	0		
Aqua-Pro Gallons	0		
Aquaneat Acres	0		
Aquaneat Gallons	0		
Aquashade Acres	0		
Aquashade Pounds	0		

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Details: Parameter	Value/Amount	Units	Comments
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		
Common waterweed (Elodea canadensis)	SP		
Contains Herbicide totals	Y		
Control Comments	*Lakewide 2,4-D rate = 350 ppb. June 7 = 1805 gal; June 10 = 12 gal.		
Coontail (Ceratophyllum demersum)	SP		
Copper Acres	0		
Copper Liquid, # Acres	0		
Copper Liquid, # Gallons	0		
Copper Pounds	0		
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	161.25		
DMA 4 IVM Gallons	12		
Diquat Acres	0		

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Details: Parameter	Value/Amount	Units	Comments
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	21		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Large-leaf pondweed (Potamogeton amplifolius)	SP		
Muskgrasses (Chara)	SP		
Nautique Acres	0		
Nautique Gallons	0		
Navigate Acres	0		
Navigate, # Pounds	0		
OTHER_Aquatics	SP		
OTHER_Aquatics_Desc	Variable pondweed; hard-stem bulrush		
Onsite Supervision	No		

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Details: Parameter	Value/Amount	Units	Comments
Permit County	Vilas		
Permit Year	2016		
Person Completing Form	James Scharl		
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	6/07/2016		
Treatment Date Series	Also includes treatment details for 6/10/2016 [+12 gal]		
Treatment End Time	16:00		
Treatment Start Time	7:30		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	62		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		
Water Use Restriction - Crop Irrigation	N		

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Details: Parameter		Value/Amount	Units	Comments		
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				
APM Chemical Permit Request		Chemical Permit Details		3/21/2017	10/1/2017	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	N/A		
CO - # days	2		
CO - 15 days	N		
CO – Date Sent	3/23/2017		
CO-Date_Received	3/21/2017		
CONTROL_INVASIVES	N		
CONTROL_OTHER	N		
Category 5 Certification Number	N/A		
Chemical Permit ID	4117		
Chemicals - Approved	DMAIVM4, 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		

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Details: Parameter	Value/Amount	Units	Comments
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
Entered in SharePoint	N		
Estimated Acres	24.6		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Expiration Date	10/1/2017		
Fee	645		
Field - 15 days	N		
Field Issued By	Kevin_Gauthier		
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	Kevin		
Payment Number	3021		
Permit County	Vilas		
Permit End Year	2017		
Permit Latitude	46.054160		
Permit Longitude	-89.134330		
Permit PLSS Section	18 41N11E		
Permit Start Year	2017		
Permit WBIC	1623800		
Permit Year	2017		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	N		

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Details: Parameter		Value/Amount	Units	Comments		
	Softstem bulrush (Schoenoplectus tabernaemontani)	N				
	Sogo pondweed (Stuckenia pectinata)	N				
	TREATMENT_AREA	North Twin Lake				
	Treatment Date	N				
	Treatment Date	N				
	Treatment Record - Received	N				
	Treatment Record - Scanned	N				
	Waterbody Type	LAKE				
APM Chemical Treatment Record		Chemical treatment details		5/23/2017	5/23/2017	COMPLETE
Details: Parameter		Value/Amount	Units	Comments		
	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	220				
	Aquathol Super K, # Acres	0				
	Aquathol Super K, # Pounds	0				
	Aquathol, # Acres Gallons	24.6				
	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				
	Control Comments	DUPLICATE RECORD				
	Copper Acres	0				
	Copper Liquid, # Acres	0				
	Copper Liquid, # Gallons	0				
	Copper Pounds	0				

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Details: Parameter	Value/Amount	Units	Comments
Cutrine Acres	0		
Cutrine Liquid Acres	0		
Cutrine Liquid Gallons	0		
Cutrine Plus Acres	0		
Cutrine Plus Liquid Acres	0		
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	24.6		
DMA 4 IVM Gallons	654		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
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		

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Details: Parameter	Value/Amount	Units	Comments
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Vilas		
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		
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		

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Details: Parameter		Value/Amount	Units	Comments	
Water Use Restriction - Other Irrigation		N			
Water Use Restriction - Swimming		N			
APM Chemical Treatment Record		Chemical treatment details		5/23/2017	5/23/2017 COMPLETE
Details: Parameter		Value/Amount	Units	Comments	
Air Temperature		11.7-13.9			
Air Temperature Units		C			
Aqua-Pro Acres		0			
Aqua-Pro Gallons		0			
Aquaneat Acres		0			
Aquaneat Gallons		0			
Aquashade Acres		0			
Aquashade Pounds		0			
Aquastar Acres		0			
Aquastar Gallons		0			
Aquathol Acres		0			
Aquathol Gallons		0			
Aquathol K Acres		0			
Aquathol K Gallons		220			
Aquathol Super K, # Acres		0			
Aquathol Super K, # Pounds		0			
Aquathol, # Acres Gallons		24.6			
Aquathol, # Pounds		0			
Avast Acres		0			
Avast Gallons		0			
Captain XTR, # Acres		0			
Captain XTR, # Gallons		0			
Clearcast Acres		0			
Clearcast Gallons		0			
Clearigate Acres		0			
Clearigate Gallons		0			
Contains Herbicide totals		Y			
Copper Acres		0			
Copper Liquid, # Acres		0			
Copper Liquid, # Gallons		0			
Copper Pounds		0			
Cutrine Acres		0			
Cutrine Liquid Acres		0			
Cutrine Liquid Gallons		0			
Cutrine Plus Acres		0			
Cutrine Plus Liquid Acres		0			

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Details: Parameter	Value/Amount	Units	Comments
Cutrine Plus Liquid Gallons	0		
Cutrine Plus Pounds	0		
Cutrine Pounds	0		
Cutrine Ultra Acres	0		
Cutrine Ultra Gallons	0		
DMA 4 IVM Acres	24.6		
DMA 4 IVM Gallons	654		
Diquat Acres	0		
Diquat Gallons	0		
Diquat Liquid Acres	0		
Diquat Pounds	0		
Duration of Chemical Residualts	<30 days		
Endotholl Acres	0		
Endotholl Liquid Acres	0		
Endotholl Liquid Gallons	0		
Endotholl Pounds	0		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
Floridone Acres	0		
Floridone Gallons	0		
Glyphosate Acres	0		
Glyphosate Gallons	0		
Glyphosate Liquid Acres	0		
Glyphosate Pounds	0		
Green Clean Acres	0		
Green Clean Gallons	0		
H2O2 Acres	0		
H2O2 Pounds	0		
Habitat Acres	0		
Habitat Gallons	0		
Harvester Acres	0		
Harvester Gallons	0		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Hydrothol Acres	0		
Hydrothol Gallons	0		
Imazapyr Acres	0		
Imazapyr Gallons	0		
Nautique Acres	0		
Nautique Gallons	0		

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Details: Parameter	Value/Amount	Units	Comments
Navigate Acres	0		
Navigate, # Pounds	0		
Onsite Supervision	No		
Permit County	Vilas		
Permit Year	2017		
Person Completing Form	Amy Kay Wensink		
Phycomycin Acres	0		
Phycomycin Pounds	0		
Polaris Acres	0		
Polaris Gallons	0		
Refuge Acres	0		
Refuge Gallons	0		
Reward Acres	0		
Reward Gallons	0		
Reward Liquid Acres	0		
Reward Pounds	0		
Rodeo Acres	0		
Rodeo Gallons	0		
SCI-62 Acres	0		
SCI-62 Gallons	0		
Sculpin G Acres	0		
Sculpin G Pounds	0		
SeClear Acres	0		
SeClear Gallons	0		
ShoreKlear Acres	0		
ShoreKlear Gallons	0		
Sonar AS Gallons	0		
Sonor AS Acres	0		
Touchdown Pro Acres	0		
Touchdown Pro Gallons	0		
Treatment Date	5/23/2017		
Treatment End Time	13:52		
Treatment Start Time	8:57		
Tribune Acres	0		
Tribune Gallons	0		
Vectobac Acres	0		
Vectobac Gallons	0		
Water Temperature	10.6-11.1		
Water Temperature Units	C		
Water Use Restriction - Animal Water	N		

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Details: Parameter	Value/Amount	Units	Comments		
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	variable				
Wind Speed	0-1.2				
APM Chemical Permit Request	Chemical Permit Details	2/26/2018	2/28/2018	DENIED	

Details: Parameter	Value/Amount	Units	Comments		
Broad-leaved cattail (Typha latifolia)	N				
CO - # days	2				
CO - 15 days	Y				
CO – Date Sent	2/28/2018				
CO-Date_Received	2/26/2018				
CONTROL_OTHER	N				
Chemical Permit ID	5415				
Chemicals - Approved	SonarOne				
Comments	Denied3/19, refund submitTed Johnson 5/18				
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	Y				
Estimated Acres	178.8				

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Details: Parameter	Value/Amount	Units	Comments
Eurasian water-milfoil (Myriophyllum spicatum)	Y		
Fee	1270		
Field - # days	Y		
Field Issued By	Kevin_Gauthier_Ty_Krajewski		
Filamentous Algae	N		
Improvement - swimming	N		
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	Kevin Gauthier / Ty Krajewski		
Other Plants	EWM		
PLSS_DIRECTION	E		
PLSS_RANGE	11		
PLSS_SECTION	18		
PLSS_TOWNSHIP	41		
Payment Number	3047		
Permit County	Vilas		
Permit End Year	2018		
Permit PLSS Section	18 41N11E		
Permit Start Year	2018		
Permit WBIC	1623700		
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	South Twin Lake		
Treatment Date	N		

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Details: Parameter	Value/Amount	Units	Comments
Treatment Date	Y		
Treatment Record - Received	N		
Treatment Record - Scanned	N		
Waterbody Type	LAKE		

Monitoring Stations		
Station ID	Name	Comments
10048315	North Twin Lake - Herbicide Monitoring Site NT1	
10048316	North Twin Lake - Herbicide Monitoring Site NT2	
10048317	North Twin Lake - Herbicide Monitoring Site NT3	
10048318	North Twin Lake - Herbicide Monitoring Site NT4	
10048319	North Twin Lake - Herbicide Monitoring Site NT5	
10048320	North Twin Lake - Herbicide Monitoring Site NT6	
643106	South Twin Lake - Deep Hole	
10044687	South Twin Lake - N (Herbicide Monitoring Site 3)	
10044685	South Twin Lake - NE (Herbicide Monitoring Site 1)	
10044686	South Twin Lake - SW (Herbicide Monitoring Site 2)	

Assessment Units			
WBIC	Segment	Local Name	Official Name
1623700	1	Twin Lakes	Twin Lakes (South)
1623800	1	Twin Lakes	Twin Lakes (North)

Lab Account Codes			
Account Code	Description	Start Date	End Date

Forms	
Form Code	Form Name

Methods	
Method Code	Method Description

Fieldwork Events				
Start Date	Status	Field ID	Station ID	Station Name

Documents

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Title	Description	Author	Published	Comments
North & South Twin Lakes - 2018 EWM Monitoring & Control Strategy Development Report	The North and South Twin Lakes Riparian Association implemented recommendations outlined in the North and South Twin Lakes Comprehensive Management Plan. This report contains the 2018 management actions as well as a discussion of 2019 EWM control on the lakes.	Eddie Heath and Tim Hoyman, Onterra LLC	1/1/2019	
North & South Twin Lakes - 2018 EWM Monitoring & Control Strategy Development Report [Appendices]	Appendices of North & South Twin Lakes - 2018 EWM Monitoring & Control Strategy Development Report.	Eddie Heath and Tim Hoyman, Onterra LLC	1/1/2019	
Surface Water Grant Project Lab Costs	Lab costs for grants received by North and South Twin Lakes Riparian Association.			

Budget

Combined Budgets:
Combined WSLH:
Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
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