

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** ACEI-132-13

**Name:** LONG LAKE OF PHELPS LAKE DISTRICT: Long Lake AIS Control & Prevention Project: 2013 - 2017

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Control

**Status:** COMPLETE

**Start Date:** 4/1/2013

**End Date:** 12/31/2019

**Purpose:** Long Lake of Phelps Lake District is sponsoring an ACEI grant on Long Lake, in Vilas County. This project will focus on annual EWM management in Long Lake and also update the Long Lake Management Plan (LMP).

Project activities include: 1) Annual chemical treatments and manual removal of EWM; 2) Annual pre/post treatment monitoring and analysis; 3) Annual volunteer AIS and herbicide concentration monitoring; 4) Implement volunteer boat washing by handing out boat wash tokens; 5) Conduct volunteer and paid watercraft inspections; 6) Entry of inspection and monitoring data onto SWIMS; 7) Point-intercept (PI) aquatic plant survey and community mapping; 8) Develop annual project report and an updated LMP plan.

Project deliverables include: 1) Chemical and manual removal of EWM; 2) Pre/post treatment, PI survey and community mapping data; 3) Entered inspection and monitoring data onto SWIMS; 4) AIS educational, prevention and monitoring activities; 5) Annual reports and an updated LMP plan summarizing EWM management during project and future EWM management direction, boat washing activities, inspection activities, AIS monitoring and AIS educational activities.

Specific Conditions for this project: Updated LMP needs Dept review and approval.

WDNR Lakes Management Coordinator will be provided with an electronic (pdf or word) copy of updated LMP, all annual reports, all maps, all GIS, survey data (pre/post treatment and PI), and samples of educational and outreach products.

**Objective:**

**Comments:** Grantee is LONG LAKE OF PHELPS LAKE DISTRICT

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Long Lake Of Phelps Lake Distr	GRANT_RECIPIENT	ACTIVE	6/13/2013		Long Lake Of Phelps Lake District	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start Date	End Date	Status
Lake Management Plan Development	update	4/1/2013	12/31/2018	PROPOSED
APM Chemical Permit Request		4/1/2013	12/31/2018	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
24D Granular, # Acres			

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Details: Parameter	Value/Amount	Units	Comments
24D Granular, # Pounds			
24D Liquid, # Acres			
24D Liquid, # Pounds			
Acres Treated - 1997 to 2003			
Amount of Chemicals used - 1997 to 2003			
Aqua-Pro Acres			
Aqua-Pro Gallons			
Aquacide, # Pounds			
Aquaneat Acres			
Aquaneat Gallons			
Aquashade Acres			
Aquashade Pounds			
Aquastar Acres			
Aquastar Gallons			
Aquathol Acres			
Aquathol Gallons			
Aquathol K Acres			
Aquathol K Gallons			
Aquathol, # Pounds			
Avast Acres			
Avast Gallons			
Chemicals Used - 1997 to 2003			
Clearcast Acres			
Clearcast Gallons			
Clearigate Acres			
Clearigate Gallons			
Comments			
Contains Herbicide totals			
Copper Acres			
Copper Liquid, # Acres			
Copper Liquid, # Gallons			
Copper Pounds			
Citrine Acres			
Citrine Liquid Acres			
Citrine Liquid Gallons			
Citrine Plus Acres			
Citrine Plus Liquid Acres			
Citrine Plus Liquid Gallons			
Citrine Plus Pounds			
Citrine Pounds			

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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
Citrine Ultra Acres			
Citrine Ultra Gallons			
DMA 4 IVM Acres			
DMA 4 IVM Gallons			
Did Treatments Occur			
Diquat Acres			
Diquat Gallons			
Diquat Liquid Acres			
Diquat Pounds			
Endotholl Acres			
Endotholl Liquid Acres			
Endotholl Liquid Gallons			
Endotholl Pounds			
Fee			
Floridone Acres			
Floridone Gallons			
Glyphosate Acres			
Glyphosate Gallons			
Glyphosate Liquid Acres			
Glyphosate Pounds			
Green Clean Acres			
Green Clean Gallons			
H2O2 Acres			
H2O2 Pounds			
Habitat Acres			
Habitat Gallons			
Harvester Acres			
Harvester Gallons			
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?			
Hydrothol Acres			
Hydrothol Gallons			
Imazapyr Acres			
Imazapyr Gallons			
Nautique Acres			
Nautique Gallons			
Navigate Acres			
Navigate, # Pounds			
Onsite Supervision Present?			
Permit #			
Phycomycin Acres			

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Details: Parameter	Value/Amount	Units	Comments		
Phycomycin Pounds					
Polaris Acres					
Polaris Gallons					
Refuge Acres					
Refuge Gallons					
Reward Acres					
Reward Gallons					
Reward Liquid Acres					
Reward Pounds					
Rodeo Acres					
Rodeo Gallons					
SCI-62 Acres					
SCI-62 Gallons					
Sculpin G Acres					
Sculpin G Pounds					
SeClear Acres					
SeClear Gallons					
ShoreKlear Acres					
ShoreKlear Gallons					
Sonar AS Gallons					
Sonor AS Acres					
Touchdown Pro Acres					
Touchdown Pro Gallons					
Treatment Date					
Treatment Date Series					
Tribune Acres					
Tribune Gallons					
Vectobac Acres					
Vectobac Gallons					
APM Mechanical Permit Request			4/1/2013	12/31/2018	PROPOSED
Details: Parameter	Value/Amount	Units	Comments		
Total Acres harvested					
Total pounds of plants harvested					
Grant Awarded			4/1/2013	12/31/2018	COMPLETE
Aquatic Plant Monitoring or Survey			4/1/2013	12/31/2018	PROPOSED
Monitor Pre and Post Treatment			4/1/2013	12/31/2018	PROPOSED
Biomonitoring Toxicity Tests			4/1/2013	12/31/2018	PROPOSED
Map Invasive Species			4/1/2013	12/31/2018	PROPOSED
Project Deliverable	annual project report		4/1/2013	12/31/2018	PROPOSED

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Monitoring Stations				
Station ID	Name	Comments		
Assessment Units				
WBIC	Segment	Local Name	Official Name	
1602300	1	Long Lake	Long Lake	
Lab Account Codes				
Account Code	Description	Start Date	End Date	
Forms				
Form Code	Form Name			
Methods				
Method Code	Method Description			
Fieldwork Events				
Start Date	Status	Field ID	Station ID	Station Name
Documents				
Title	Description	Author	Published	Comments
2013 EWM Monitoring and Control Strategy Assessment Report	Eurasian water milfoil (EWM, <i>Myriophyllum spicatum</i> ) was first documented in Long Lake in 2000. Since 2008, the Long Lake of Phelps District (LLPLD) has been actively managing and reducing the EWM population through strategically targeted herbicide spot treatments. With assistance from Onterra, the LLPLD was successfully awarded a Wisconsin Department of Natural Resources (WDNR) Aquatic Invasive Species (AIS) Established Population Control Grant in February 2013 to aid in funding the management of EWM within Long Lake from 2013-2017.	Onterra, LLC	12/1/2013	

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2014 EWM Monitoring and Control Strategy Assessment Report	Eurasian water milfoil (EWM, <i>Myriophyllum spicatum</i> ) was first documented in Long Lake in 2000. Since 2008, the Long Lake of Phelps District (LLPLD) has been actively managing and reducing the EWM population through strategically targeted herbicide spot treatments. With assistance from Onterra, the LLPLD was successfully awarded a Wisconsin Department of Natural Resources (WDNR) Aquatic Invasive Species (AIS) Established Population Control Grant in February 2013 to aid in funding the management of EWM within Long Lake from 2013-2017.	Onterra, LLC	12/1/2014	
2015 EWM Monitoring and Control Strategy Assessment Report	EWM management plan for 2013-2017 in Long Lake, Vilas County, WI	Onterra, LLC	11/29/2015	
2016 EWM Monitoring and Control Strategy Assessment Report	In 2000 the presence of EWM was verified by the Wisconsin Department of Natural Resources (WDNR) from Long Lake, although it was suspected of inhabiting the system for years before this date. In 2006, the WDNR completed a point-intercept aquatic plant survey, locating EWM in approximately 26% of the littoral area of the lake (<18ft). Onterra was contracted by the Long Lake of Phelps Lake District (LLPLD) during the late-summer of 2007, where the majority of the littoral zone contained colonized EWM of which approximately 25 acres was found to be surface matted.	Onterra, LLC	12/1/2016	
Long Lake - Vilas County, Wisconsin - Aquatic Plant Management Plan Update	The LLPLD contracted with Onterra, LLC during the late-summer of 2017 to develop a management strategy for the increasing EWM population within Long Lake. With the assistance of Onterra, the LLPLD secured a WDNR ACEI grant to fund an EWM population management strategy from 2008-2012.	Onterra, LLC	6/1/2019	
Long Lake AIS Final Report		Daniel R. Anderson	12/23/2019	

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<p>Summary of Diver Assisted Suction Harvesting &amp; Hand Removal Efforts - Long Lake, Vilas County, WI [2015 Permit Annual Report]</p>	<p>The Long Lake of Phelps Lake District solicited the services of Many Waters, LLC to use Diver Assisted Suction Harvesting (DASH) to manage for Eurasian water milfoil (EWM) on Long Lake, located near Phelps, Vilas County. DASH is a mechanical process and requires a mechanical harvesting permit (Form 3200-113 (R 3/04)) from the Wisconsin Department of Natural Resources (WDNR). The 2015 WDNR Mechanical Harvesting Permit ID is NO-2015-64-91M</p>	<p>Many Waters, LLC</p>	<p>11/29/2015</p>	
<p>Summary of Diver Assisted Suction Harvesting - Long Lake, Vilas County, WI [2018 Permit Annual Report]</p>	<p>The Long Lake of Phelps Lake District solicited the services of Many Waters, LLC to use Diver Assisted Suction Harvesting (DASH) to manage for Eurasian watermilfoil (EWM) on Long Lake, located near Phelps, Vilas County. DASH is a mechanical process and requires a mechanical harvesting permit (Form 3200-113 (R 10/16)) from the Wisconsin Department of Natural Resources (WDNR). The 2018 WDNR Mechanical Harvesting Permit ID is NO-2018-64-0090M.</p>	<p>Many Waters, LLC</p>	<p>9/21/2018</p>	

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:** \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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