

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** AIRR-109-12

**Name:** HORSESHOE LAKE PROPERTY ASSOC: Horseshoe Lake Rapid Response for EWM

**Type:** Aquatic Invasives Grant

**Subtype:** Aquatic Invasives Early Detection and Response

**Status:** COMPLETE

**Start Date:** 7/1/2011

**End Date:** 12/31/2016

**Purpose:** The Horseshoe Lake Property Association is sponsoring a four (4) year Early Detection and Response project that will monitor and manage a pioneering population of Eurasian watermilfoil in Horseshoe Lake.

Project activities include: 1) Point-intercept survey(s) and seasonal and/or pre- and post-treatment aquatic plant monitoring following guidelines provided by the Department; 2) Chemical treatment and/or SCUBA and manual removal of Eurasian watermilfoil; 3) Information and Education Program.

Special condition: WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for point-intercept survey monitoring, pre/post treatment monitoring, and aquatic plant management plan development unless otherwise approved by the Department.

Specific deliverables for this project include annual progress and final reports of monitoring and management activities, including aquatic plant survey spreadsheets and pre/post treatment monitoring, and any educational materials developed.

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 Coordinator.

**Objective:**

**Comments:** Grantee is HORSESHOE LAKE PROPERTY ASSOC

**Outcome:**

**Study Design:**

**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
Horseshoe Lake Improvement Ass	GRANT_RECIPIENT	ACTIVE	7/1/2011		Horseshoe Lake Improvement Association	

### Project Statuses

Date	Reported By	Status	Comments
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### Actions

Action	Detailed Description	Start Date	End Date	Status
Grant Awarded		7/1/2011	6/30/2014	IN_PROGRESS
Grant Awarded		7/1/2011	6/30/2014	IN_PROGRESS
Aquatic Plant Monitoring or Survey		7/1/2011	12/31/2015	PROPOSED

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Monitor Pre and Post Treatment		7/1/2011	12/31/2015	PROPOSED
APM Mechanical Permit Request		7/1/2011	12/31/2015	PROPOSED

Details: Parameter	Value/Amount	Units	Comments
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Total Acres harvested			
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Total pounds of plants harvested			
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Information and Education		7/1/2011	12/31/2015	PROPOSED
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APM Chemical Permit Request		7/1/2011	12/31/2015	PROPOSED
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Details: Parameter	Value/Amount	Units	Comments
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24D Granular, # Acres			
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24D Granular, # Pounds			
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24D Liquid, # Acres			
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24D Liquid, # Pounds			
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Acres Treated - 1997 to 2003			
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Amount of Chemicals used - 1997 to 2003			
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Aqua-Pro Acres			
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Aqua-Pro Gallons			
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Aquacide, # Pounds			
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Aquaneat Acres			
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Aquaneat Gallons			
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Aquashade Acres			
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Aquashade Pounds			
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Aquastar Acres			
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Aquastar Gallons			
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Aquathol Acres			
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Aquathol Gallons			
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Aquathol K Acres			
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Aquathol K Gallons			
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Aquathol, # Pounds			
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Avast Acres			
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Avast Gallons			
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Chemicals Used - 1997 to 2003			
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Clearcast Acres			
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Clearcast Gallons			
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Clearigate Acres			
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Clearigate Gallons			
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Comments			
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Contains Herbicide totals			
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Copper Acres			
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Copper Liquid, # Acres			
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<b>Details: Parameter</b>	<b>Value/Amount</b>	<b>Units</b>	<b>Comments</b>
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			
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			

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Details: Parameter	Value/Amount	Units	Comments	
Hydrothol Gallons				
Imazapyr Acres				
Imazapyr Gallons				
Nautique Acres				
Nautique Gallons				
Navigate Acres				
Navigate, # Pounds				
Onsite Supervision Present?				
Permit #				
Phycomycin Acres				
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				
Project Deliverable	annual progress and final report	7/1/2011	12/31/2015	PROPOSED

## Wisconsin Department of Natural Resources SWIMS Project Summary

Monitoring Stations				
Station ID	Name	Comments		
Assessment Units				
WBIC	Segment	Local Name	Official Name	
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
2011 EWM Beds and Likely Habitat - Horseshoe Lake, Washburn County [Map]	Map of 2011 EWM beds and likely habitat for EWM	Endangered Resource Services, LLC	6/12/2011	
2011 Eurasian water milfoil (Myriophyllum spicatum) June Littoral Zone and Bed Mapping Surveys, August Warm Water Point Intercept Survey, and October Herbicide Assessment Swimover Survey - Horseshoe Lake	In May 2011, Eurasian water milfoil (Myriophyllum spicatum) was discovered in the lake. Because of this, the Horseshoe Lake Property Owners Association and the WDNR commissioned a June EWM bed mapping survey, an August full point intercept macrophyte survey, and an October post herbicide swimover assessment survey in preparation for developing an Aquatic Plant Management Plan for the lake. The June survey identified three EWM beds on the east side of the lake totaling 0.53 acre. The August survey found macrophytes at 254 of the 387 total survey points.	Matthew S. Berg, Endangered Resource Services, LLC	10/8/2011	
2011 PI Survey Data - Horseshoe Lake, Washburn County [Excel File]	PI survey data from Horseshoe Lake.	Matthew S. Berg, Mitchel L. Berg, Noah M. Berg	8/3/2011	

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2012 Eurasian water milfoil (Myriophyllum spicatum) June Littoral Zone and Bed Mapping Surveys, and September Littoral Zone Survey and Herbicide Assessment Dive Survey - Horseshoe Lake		Matthew S. Berg, Endangered Resource Services, LLC	9/1/2012	
Horseshoe Lake EWM [Photo 10]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 11]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 1]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 2]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 3]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 4]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 5]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 6]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	

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Horseshoe Lake EWM [Photo 7]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 8]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	
Horseshoe Lake EWM [Photo 9]	Photo of Horseshoe Lake taken sometime between July and August of 2011. Grant project revolved around the management of a pioneering EWM population.	Matthew S. Berg	1/1/2011	

### Budget

**Combined Budgets:**

**Combined WSLH:**

**Combined Total:**                      \$0.00

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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