

## Spring Lake 2019 Aquatic Invasive Species Survey Summary

On October 19, 2019, Cason & Associates, LLC conducted an Aquatic Invasive Species survey on Spring Lake in Waushara County.

During the survey, both Eurasian/Hybrid Watermilfoil (EWM/HWM) and Curly-Leaf Pondweed (CLP) aquatic invasive species were observed and surveyed. The EWM/HWM and CLP acreages by density are outlined in the table below:

Density	EWM/HWM	CLP
Highly Scattered	5.73	0.22
Scattered	0.37	--
Moderately Dense	--	--
Dense	0.04	--
<b>Total Acreage:</b>	<b>6.14</b>	<b>0.22</b>

The amount of EWM/HWM found in the lake has expanded since last year, especially around the boat launch and on the northern portion of the lake. However, the EWM/HWM in the northern portion of the lake is highly scattered among dense native northern watermilfoil. Areas recommended for EWM/HWM treatment are areas with densities of highly scattered, scattered, moderately dense or dense. These areas are noted in the Aquatic Invasive Species Survey Map as possible treatment areas. All possible treatment areas are labeled to assist in identification. The cost estimator includes all possible treatment areas, and the cost to treat each area to match your lake management budget.

Curly-Leaf Pondweed (CLP) was only observed as a highly scattered bed, and as such, is not dense enough to be considered for herbicide treatment. However, CLP is best surveyed in the spring as CLP is one of the first aquatic plants to emerge and tends to die off as the water temperature increases. Therefore, the CLP observed in this fall survey may not accurately reflect the CLP population in Spring Lake. We would recommend a spring AIS survey to determine the extent of CLP in Spring Lake. If large beds are found, herbicide use may be appropriate. However, if only small clusters or highly scattered beds are present, we would recommend manual removal options, such as DASH or hand-pulling.

The following deliverables are attached to this survey summary:

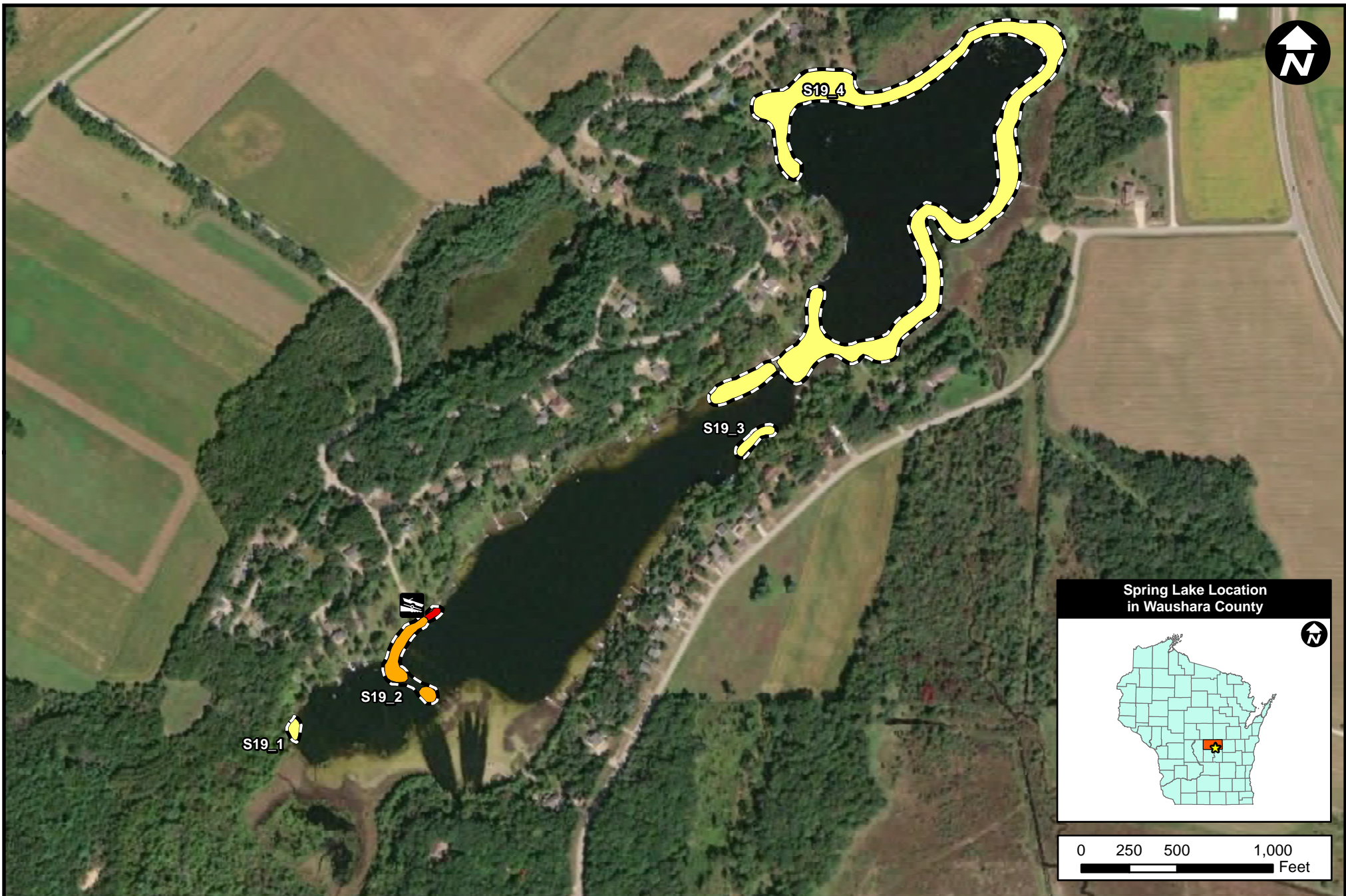
1. Aquatic Invasive Species Survey Maps (Map 1-2)
2. Cost Estimator for Treatment Areas Using Navigate

Thank you for your business and for allowing us to perform this service for your lake district. If you have any questions, please contact me at 920-361-4088 or [colton@casonassociates.com](mailto:colton@casonassociates.com).






Sincerely,

Colton Hutchinson

**877-309-8408**  
**[www.casonassociates.com](http://www.casonassociates.com)**  
**[info@casonassociates.com](mailto:info@casonassociates.com)**



### Legend

-  Highly Scattered
-  Scattered
-  Dense
-  Possible Treatment Areas
-  Boat Launch

### Spring Lake Aquatic Invasive Species Survey Eurasian/Hybrid Watermilfoil

FIELD DATE(S):  
10/19/2019

CLIENT:  
Spring Lake Management District

CITY:  
Spring Lake

DRAWN DATE:  
12/12/2019

COUNTY:  
Waushara County

STATE:  
Wisconsin

**Cason**  
& ASSOCIATES, LLC  
LAND & WATER MANAGERS

PO Box 230, Berlin, WI 54923  
[www.casonassociates.com](http://www.casonassociates.com)



MAP NUMBER:

1  
of  
2





### Legend

-  Highly Scattered
-  Boat Launch

### Spring Lake Aquatic Invasive Species Survey Curly-Leaf Pondweed

FIELD DATE(S):

10/19/2019

CLIENT:

Spring Lake Management District

CITY:

Spring Lake

DRAWN DATE:

12/12/2019

COUNTY:

Waushara County

STATE:

Wisconsin

**Cason**  
& ASSOCIATES, LLC  
LAND & WATER MANAGERS

PO Box 230, Berlin, WI 54923  
[www.casonassociates.com](http://www.casonassociates.com)

MAP NUMBER:

2  
of  
2