



Silver Lake EWM Removal Report 2016

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Silver Lake EWM Removal Summary 2016

Summary: On June 30th, July 29th, August 1st, and August 23rd, Aquatic Plant Management LLC (APM) Conducted hand removal services of Eurasian Watermilfoil (EWM) on Silver Lake in Forest County, WI. Our divers spent a combined total of 100.41 hours on the water and were able to successfully remove 855 cubic feet of EWM from the lake. As per Onterra LLC's request, our crew began diving at site A-16, where we spent all of the first three days (6/30, 7/29, and 8/1) removing EWM. At the request of the Silver Lake Association, we spent our remaining two days (8/16 and 8/23) targeting the matted colonies on the northernmost part of the lake, as well as the two matted colonies closest to the boat landing. We were able to remove all visible EWM from the northern end of the lake, as well as the colony directly east of the boat landing, finally ending at site F-16.

Dive Conditions: Conditions on June 30th were ideal for hand-harvesting, with overcast skies and light winds, however we were forced off the water early due to strong storms. An air temperature of 60 degrees was recorded, as well as a water temperature of 73 degrees. Conditions on July 29th consisted of partly cloudy skies with light winds, an air temperature of 73 degrees, and water temperature of 78 degrees. Conditions on August 1st consisted of clear skies with light winds, an air temperature of 79 degrees, and water temperature of 78 degrees. Conditions on August 16th consisted of partly cloudy skies with light winds, an air temperature of 77 degrees, and water temperature of 78 degrees. Conditions on August 23rd consisted of clear skies with mild winds, an air temperature of 77 degrees, and water temperature of 72 degrees. Secchi disk readings indicated that water visibility varied between 9 and 9.5 feet.

Recommendations: The EWM growth in the southwest portion of the lake is of particular concern, as heavy native aquatic vegetation in this area may be obscuring smaller EWM plants. This may account for the large increase in EWM growth seen since the June ESAIS survey. Continued monitoring and management efforts in this area, as well as the northern portion of the lake, are paramount to preventing the spread of EWM to other areas of Silver Lake.

Detailed Diving Activities

Date	Latitude	Longitude	Time Underwater	Avg Plant Height	Avg Water Depth	# Plants Removed	EWM Density Rating	Cubic Feet Removed	Substrate Type	EWM Condition	Native Growth
6/30/16	45.55508	88.71445	0:45	4	6	N/A	5	25	Organic	Healthy	Abundant
6/30/16	45.55508	88.71445	0:55	4	6	N/A	4	30	Organic	Healthy	Abundant
6/30/16	45.55508	88.71445	1:05	4	6	N/A	2	20	Organic	Healthy	Abundant
7/29/16	45.55411	88.71407	0:40	5	7	N/A	6	55	Organic	Intermediate	Abundant
7/29/16	45.55411	88.71407	0:45	5	7	N/A	6	50	Organic	Intermediate	Abundant
7/29/16	45.55411	88.71407	0:45	5	7	N/A	5	45	Organic	Intermediate	Abundant
7/29/16	45.55411	88.71407	0:40	5	7	N/A	4	35	Organic	Intermediate	Abundant
7/29/16	45.55411	88.71407	0:50	5	7	N/A	3	30	Organic	Intermediate	Abundant
7/29/16	45.55411	88.71407	0:20	5	7	N/A	3	15	Organic	Intermediate	Abundant
8/1/16	45.55502	88.71457	0:55	5	7	N/A	4	45	Organic	Intermediate	Abundant
8/1/16	45.5549	88.71473	0:55	5	7	N/A	5	50	Organic	Intermediate	Abundant

EWM Density Rating	0	1	2	3	4	5	6	7	8	9	10
Plants per 5 Square Yards	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20

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Date	Latitude	Longitude	Time Underwater	Avg Plant Height	Avg Water Depth	# Plants Removed	EWM Density Rating	Cubic Feet Removed	Substrate Type	EWM Condition	Native Growth
8/1/16	45.5549	88.71481	0:55	4	5	N/A	2	35	Organic	Intermediate	Abundant
8/1/16	45.55529	88.71387	0:55	4	5	N/A	10	60	Organic	Intermediate	Abundant
8/16/16	45.56395	88.70952	0:50	6	7	N/A	15	60	Organic	Intermediate	Abundant
8/16/16	45.56395	88.70952	0:45	6	7	N/A	6	40	Organic	Intermediate	Abundant
8/16/16	45.563721	88.71105	0:45	3	6	N/A	2	5	Organic	Intermediate	Abundant
8/16/16	45.56328	88.70574	0:20	4	5	N/A	8	15	Organic	Intermediate	Abundant
8/16/16	45.55919	88.71064	0:50	7	7	N/A	15	60	Organic	Intermediate	Abundant
8/23/16	45.55909	88.71076	1:05	7.5	7.5	N/A	15	60	Organic	Intermediate	Abundant
8/23/16	45.55909	88.71076	1:15	7.5	7.5	N/A	6	35	Organic	Intermediate	Abundant
8/23/16	45.55645	88.71241	1:10	7	7.5	N/A	10	55	Organic	Intermediate	Abundant
8/23/16	45.55645	88.71241	1:10	7	7.5	N/A	4	20	Organic	Intermediate	Abundant

EWM Density Rating	0	1	2	3	4	5	6	7	8	9	10
Plants per 5 Square Yards	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20

EWM Pictures



Map Created by Onterra LLC

