

Virgin Lake EWM Removal Report 2017



Virgin Lake EWM Removal Summary 2017

Summary: On June 27th and July 9th, Aquatic Plant Management LLC (APM) Conducted hand removal services of Eurasian Watermilfoil (EWM) on Virgin Lake in Three Lakes, WI. Our divers spent a combined total of 30 hours on the water and were able to successfully remove 5.0 cubic feet of EWM from the lake. Using the GPS coordinates provided by Onterra LLC, we worked our way across the 2017 hand-harvest locations, systematically line-swimming in search of EWM occurrences. On June 27th, we focused first on the clumps of plants, beginning at the north end of the island before working our way around the lake. After removing all of the clumps, we then focused on the single occurrences, finally ending on the south side of the island. Upon our return on July 9th, we focused on the remaining single plants south of the island, as well as several unmapped plants located by Tyler Andrews of Virgin Lake.

Dive Conditions: Conditions on 6/27/16 were ideal for EWM hand-harvesting. Sunny skies with light winds persisted throughout the day. The air temperature was recorded at 70 degrees, while the water temperature was recorded at 66 degrees. Conditions on 7/9/16 were acceptable for hand-harvesting, with overcast skies that ultimately gave way to thunderstorms. The air temperature was recorded at 65 degrees, while the water temperature was recorded at 68 degrees. A secchi disk reading on both days indicated water visibility was roughly 3.5 feet.

Recommendations: While we were able to remove all visible EWM from the targeted EWM control areas, poor visibility coupled with dense native growth could be obscuring small, unmapped EWM plants. Due to this fact, frequent monitoring and continued management efforts are vital to prevent proliferation of EWM throughout Virgin Lake.



Detailed Diving Activities

Date	Latitude	Longitude	Hours Underwater	Avg Plar Height		EWM r Density Rating	Cubic Feet Removed	: Substrate Type	E EWM Condition	Native Growth
6/27/17	45.78280	-89.09020	0.67	5	6.5	2	1	Gravel	Intermediate	Sparse
6/27/17	45.78241	-89.09045	0.25	5	6.5	1	0.5	Gravel	Intermediate	Sparse
6/27/17	45.78225	-89.09076	0.33	6	7	2	0.75	Organic	Intermediate	Abundant
6/27/17	45.78422	-89.08298	0.25	5	5	2	0.5	Gravel	Healthy	Sparse
6/27/17	45.78739	-89.08178	0.33	6.5	7	2	0.5	Organic	Intermediate	Sparse
6/27/17	45.78780	-89.08244	0.08	3.5	4	1	0.25	Gravel	Healthy	Sparse
6/27/17	45.79170	-89.08372	0.17	5	6.5	1	0.1	Organic	Brittle	Abundant
6/27/17	45.79110	-89.08180	0.50	7	7	1	0.1	Organic	Healthy	Abundant
6/27/17	45.78472	-89.09074	0.42	5	5.5	1	0.1	Gravel	Healthy	Sparse
6/27/17	45.78047	-89.08826	0.08	6.5	7	1	0.1	Gravel	Healthy	Abundant
6/27/17	45.78032	-89.09020	0.17	6	5	1	0.1	Organic	Healthy	Abundant
6/27/17	45.78067	-89.09109	0.25	8	10	1	0.1	Organic	Healthy	Sparse
EWM D	EWM Density Rating 0 1				3 4	5	6	7 8	9	10
Plants p	er 5 Square Yar	ds 0	1-2	3-4	5-6 7-8	9-10	11-12	13-14	15-16 17-18	19-20



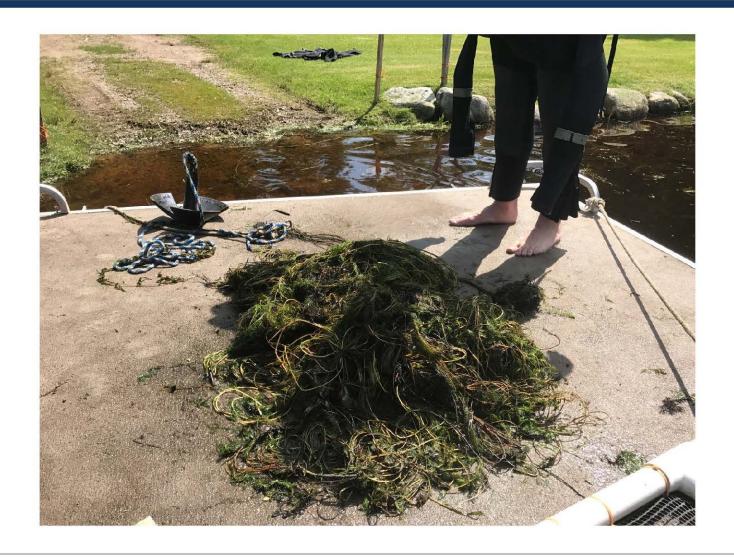
Detailed Diving Activities

Date	Latitude	Longitude	Hours Underwater	Avg Plant Height	Avg Water Depth	EWM Density Rating	Cubic Feet Removed	Substrate Type	EWM Condition	Native Growth
6/27/17	45.78109	-89.09118	0.08	7	4	1	0.1	Sandy	Healthy	Sparse
6/27/17	45.77998	-89.09061	0.08	7	6	1	0.1	Organic	Healthy	Sparse
6/27/17	45.77840	-89.09107	0.33	7	6	1	0.1	Organic	Healthy	Abundant
7/9/17	45.78093	-89.08838	0.25	9	10	1	0.01	Gravel	Healthy	Sparse
7/9/17	45.78314	-89.08303	0.17	6	5	1	0.02	Gravel	Healthy	Sparse
7/9/17	45.78879	-89.08130	0.17	9	6	1	0.01	Organic	Healthy	Sparse
7/9/17	45.79145	-89.08292	0.17	9	8	1	0.02	Organic	Healthy	Sparse

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





EWM Pictures

