

Roberts Lake EWM Removal Report 2017



Roberts Lake EWM Removal Summary 2017

Summary: On June 22nd, 23rd, and 26th, Aquatic Plant Management LLC (APM) conducted hand-harvesting services of Eurasian Watermilfoil (EWM) on Roberts Lake in Forest County, WI. Our divers spent a combined total of 72.00 hours on the water and were able to successfully remove 23.25 cubic feet of EWM from the lake. Upon our arrival, we began our hand-harvesting efforts at the small plant colony in the northeast bay of the lake. We then moved on to the clumps of plants near the Wild Rose boat landing. After targeting the clumps of plants, we began tackling the single or few plants, beginning with the southernmost occurrences before moving north toward the Wild Rose boat landing. We were also able to remove a couple of plants from beneath a swim raft in the center of the north shoreline of the lake.

Dive Conditions: Conditions on June 22nd were acceptable for hand-harvesting, with overcast skies with periods of rain, an air temperature of 70 degrees, and water temperature of 72 degrees. Conditions on June 23rd consisted of clear skies with high winds. We recorded an air temperature of 74 degrees, and water temperature of 71 degrees. Conditions on June 26th consisted of overcast skies with periods of rain, an air temperature of 48 degrees, and water temperature of 69 degrees. Sechhi disk readings on all days indicated water visibility of roughly 9.5 feet.

Recommendations: While we were able to remove all visible EWM we encountered from the sites we visited, heavy native aquatic vegetation (mainly near the Wild Rose boat landing) may be obscuring smaller EWM plants. Due to this factor, continued monitoring and management efforts are vital to preventing proliferation of EWM throughout Roberts Lake



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
6/22/17	45.46061	88.77889	1.50	6	14	6	9	Organic	Healthy	Abundant
6/22/17	45.46061	88.77889	0.92	3	14	1	2	Organic	Healthy	Abundant
6/22/17	45.46202	88.77802	0.83	6	10	3	2	Organic	Healthy	Abundant
6/22/17	45.45924	888.7788	0.25	5	6	0.5	1	Organic	Healthy	Abundant
6/22/17	45046032	88.7784	0.17	4	7	0.5	0.25	Organic	Healthy	Abundant
6/22/17	45.4612	88.77827	0.08	5	8	2	0.5	Organic	Healthy	Abundant
6/22/17	45.46149	88.7781	0.25	4	7	0.5	0.25	Organic	Healthy	Abundant
6/22/17	45.46194	88.77798	0.17	3.5	10	0.5	0.25	Organic	Healthy	Abundant
6/22/17	45.46228	88.7778	0.17	5	7	0.5	1	Sandy	Healthy	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



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
6/23/17	45.4641	88.78003	0.83	3	3	1	1	Organic	Healthy	Abundant
6/23/17	45.46429	88.78043	0.83	1	1	2	1	Sandy	Healthy	Abundant
6/23/17	45.4641	88.78039	0.92	3	4	1	1.5	Organic	Healthy	Abundant
6/23/17	45.46355	88.77957	0.25	5	8	1	0.25	Organic	Healthy	Abundant
6/23/17	45.46263	88.77813	0.25	8	4	1	0.5	Organic	Healthy	Abundant
6/23/17	45.4626	88.78741	0.50	4	8	1	0.5	Sandy	Healthy	Sparse
6/23/17	45.46376	88.78069	0.25	3	5	1	1	Organic	Healthy	Abundant
6/23/17	45.4607	88.7788	0.67	4	14	1	0.5	Organic	Healthy	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



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
6/26/17	45.46037	88.77852	0.25	1	11	1	0.1	Organic	Healthy	Sparse
6/26/17	45.46067	88.47876	0.92	1.5	13	1	0.25	Organic	Healthy	Sparse
6/26/17	45.46136	88.77803	0.42	0	7	0	0	Organic	Healthy	Abundant
6/26/17	45.46203	88.77794	0.58	3	7	1	0.1	Organic	Healthy	Abundant
6/26/17	45.46231	88.77785	0.33	0	7	0	0	Organic	Healthy	Abundant
6/26/17	45.46409	88.78007	0.42	1	6	1	0.1	Organic	Healthy	Abundant
6/26/17	45.46409	88.78013	0.58	0.5	5.5	1	0.1	Organic	Healthy	Abundant
6/26/17	45.46426	88.78046	0.75	1.5	3	1	0.1	Organic	Healthy	Abundant
6/26/17	45.46404	88.78062	0.25	0	5	0	0	Organic	Healthy	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





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