

## Lost Land Lake Qualitative HEWM Survey Results

**Date:** September 14, 2017

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**Methods:** Used garden rake to collect plants in 5 areas of major 2016 infestation by HEWM that were treated on June 20, 2017 with Reward herbicide (Diquat dibromide). Collected 3 samples per site in each of these 5 former treatment areas.

Treatment Area (6/20/17) and Sample Site (9/14/17)	Est. % HEWM	Est. Max. Height (ft.) All Plants	Site Depth and Notes on Predominate Plant Species
<b>Area D on Treatment Map Northwestern Wilson Bay</b>			Note on D: This had been the largest (1 A) almost monotypic stand of HEWM treated.
D1	50	2	5 feet – Sparse growth of HEWM and Flat-stem pondweed ( <i>P. zostiriformis</i> )
D2	10	2	5 feet – Little HEWM and moderate growth of Sago pondweed ( <i>P. pectinatus</i> )
D3	0	2	7 feet – Dense, monotypic growth of Sago pondweed ( <i>P. pectinatus</i> )
<b>Area E on Treatment Map Near Wilson Creek Outlet</b>			
E1	0	4	5 feet – Moderate growth of Clasping-leaf pondweed ( <i>P. richardsonii</i> ), some Sago.
E2	10	3	6 feet – Little HEWM and moderate growth of Flat-stem pondweed ( <i>P. zostiriformis</i> )
E3	0	3	5 feet – Dense growth rich in species: ( <i>P. zostiriformis</i> , <i>P. amplifolius</i> , <i>P. richardsonii</i> , <i>P. pectinatus</i> , & dense <i>Nitella</i> on bottom)
<b>Area K on Treatment Map South Central Wilson Bay</b>			Note on K: This had been an impenetrably dense stand of HEWM before treatment.
K1	0	4	4.5 feet – Dense, healthy growth of Clasping-leaf pondweed ( <i>P. richardsonii</i> ), Flat-stem pondweed ( <i>P. zostiriformis</i> ), and Coontail ( <i>Ceratophyllum demersum</i> )
K2	0	3	4.5 feet – Moderate growth of Large-leaf pondweed ( <i>P. amplifolius</i> ) with scattered Bladderwort ( <i>Utricularia vulgaris</i> ) on bottom
K3	0	3	6 feet – Moderate growth of Large-leaf pondweed ( <i>P. amplifolius</i> ), wild celery ( <i>Vallisneria americana</i> ), and Northern water milfoil ( <i>Myriophyllum sibiricum</i> )
<b>Area N on Treatment Map Northern Landing Camp Bay</b>			
N1	0	3	6 feet – Dense growth of Flat-stem pondweed ( <i>P. zostiriformis</i> )
N2	0	4	5 feet – Moderate growth of Northern water milfoil ( <i>Myriophyllum sibiricum</i> )
N3	0	3	4.5 feet – Dense growth of Flat-stem pondweed ( <i>P. zostiriformis</i> ), wild celery ( <i>Vallisneria americana</i> ), and Northern water milfoil ( <i>Myriophyllum sibiricum</i> )

<b>Area W on Treatment Map South Shore Ole Creek Bay</b>			Note on W: This was probably the most muck-bottomed area sampled.
<b>W1</b>	0	2	4.5 feet – Dense monotypic growth of fern pondweed ( <i>P. robbinsii</i> )
<b>W2</b>	0	3	5 feet – 90% Fern pondweed ( <i>P. robbinsii</i> ), 10% Large-leaf pondweed ( <i>P. amplifolius</i> )
<b>W3</b>	0	2	4 feet – 80% Fern pondweed ( <i>P. robbinsii</i> ), 20% Northern water milfoil ( <i>Myriophyllum sibiricum</i> )