

Standard Aquatic Vegetation Summary Sheet

Lake Name: Pentwater
 County: Oceana
 Surveyor: Rick Buteyn, Paul Hausler
 Total Number of AVAS Sites: 106
 Survey Date: 9-Aug-18

Code No	Plant Name	Occurrence per Density Category				Relative Density Calculations				Relative Density for Entire Littoral Zone		Code No	Plant Name
		A	B	C	D	A x 1	B x10	C x 40	D x 80	Sum	%		
1	Eurasian milfoil	14	12			14	120	0	0	134	1.3	1	<i>Myriophyllum spicatum</i>
2	Curly leaf pondweed					0	0	0	0	0	0.0	2	<i>Potamogeton crispus</i>
3	Chara					0	0	0	0	0	0.0	3	<i>Chara sp.</i>
4	Thinleaf pondweed		1			0	10	0	0	10	0.1	4	<i>Potamogeton sp.</i>
5	Flatstem pondweed	1	11	1		1	110	40	0	151	1.4	5	<i>Potamogeton zosteriformis</i>
6	Robbins pondweed					0	0	0	0	0	0.0	6	<i>Potamogeton robbinsii</i>
7	Variable pondweed					0	0	0	0	0	0.0	7	<i>Potamogeton gramineus</i>
8	Whitestem pondweed		2	2		0	20	80	0	100	0.9	8	<i>Potamogeton praelongus</i>
9	Richardsons pondweed		41	7		0	410	280	0	690	6.5	9	<i>Potamogeton richardsonii</i>
10	Illinois pondweed					0	0	0	0	0	0.0	10	<i>Potamogeton illinoensis</i>
11	Large leaf pondweed					0	0	0	0	0	0.0	11	<i>Potamogeton amplifolius</i>
12	American pondweed					0	0	0	0	0	0.0	12	<i>Potamogeton americanus</i>
13	Floating leaf pondweed					0	0	0	0	0	0.0	13	<i>Potamogeton natans</i>
14	Water stargrass	3	13	11		3	130	440	0	573	5.4	14	<i>Heteranthera dubia</i>
15	Wild celery		21	48	20	0	210	1,920	1,600	3,730	35.2	15	<i>Vallisneria americana</i>
16	Sagittaria					0	0	0	0	0	0.0	16	<i>Sagittaria sp.</i>
17	Northern milfoil					0	0	0	0	0	0.0	17	<i>Myriophyllum sibiricum</i>
18	M. verticillatum					0	0	0	0	0	0.0	18	<i>Myriophyllum verticillatum</i>
19	M. heterophyllum					0	0	0	0	0	0.0	19	<i>Myriophyllum heterophyllum</i>
20	Coontail		37	41	6	0	370	1,640	480	2,490	23.5	20	<i>Ceratophyllum demersum</i>
21	Elodea		2	4		0	20	160	0	180	1.7	21	<i>Elodea canadensis</i>
22	Utricularia spp.	6	20	4		6	200	160	0	366	3.5	22	<i>Utricularia vulgaris</i>
23	Bladderwort-mini					0	0	0	0	0	0.0	23	<i>Utricularia minor</i>
24	Buttercup		2			0	20	0	0	20	0.2	24	<i>Ranunculus sp.</i>
25	Najas flexilis		5	12	2	0	50	480	160	690	6.5	25	<i>Najas flexilis</i>
26	Brittle naiad					0	0	0	0	0	0.0	26	<i>Najas minor</i>
27	Sago pondweed					0	0	0	0	0	0.0	27	<i>Stuckenia pectinata</i>
28						0	0	0	0	0	0.0	28	
29						0	0	0	0	0	0.0	29	
30	Nymphaea		1			0	10	0	0	10	0.1	30	<i>Nymphaea odorata</i>
31	Nuphar		1	3		0	10	120	0	130	1.2	31	<i>Nuphar sp.</i>
32	Brasenia					0	0	0	0	0	0.0	32	<i>Brasenia schreberi</i>
33	Lemna minor					0	0	0	0	0	0.0	33	<i>Lemna minor</i>
34	Spirodella					0	0	0	0	0	0.0	34	<i>Spirodela polyrhiza</i>
35	Watermeal					0	0	0	0	0	0.0	35	<i>Wolffia punctata</i>
36	Arrowhead					0	0	0	0	0	0.0	36	<i>Sagittaria latifolia</i>
37	Pickereelweed					0	0	0	0	0	0.0	37	<i>Pontederia cordata</i>
38	Arrow arum					0	0	0	0	0	0.0	38	<i>Peltandra virginica</i>
39	Cattails	1	10	3	2	1	100	120	160	381	3.6	39	<i>Typha sp.</i>
40	Bulrushes		4			0	40	0	0	40	0.4	40	<i>Scirpus sp.</i>
41	Iris					0	0	0	0	0	0.0	41	<i>Iris sp.</i>
42	Swamp loosestrife					0	0	0	0	0	0.0	42	<i>Decodon verticillatus</i>
43	Purple loosestrife					0	0	0	0	0	0.0	43	<i>Lythrum salicaria</i>
44	Starry stonewort	2	3	6	6	2	30	240	480	752	7.1	44	<i>Nitellopsis obtusa</i>
45	Phragmites		3			0	30	0	0	30	0.3	45	<i>Phragmites australis</i>
46	Carolina fanwort		1			0	10	0	0	10	0.1	46	<i>Cabomba caroliniana</i>

Total: 98.9

□ = 1 ACRE

OUTLET TO LAKE MICHIGAN

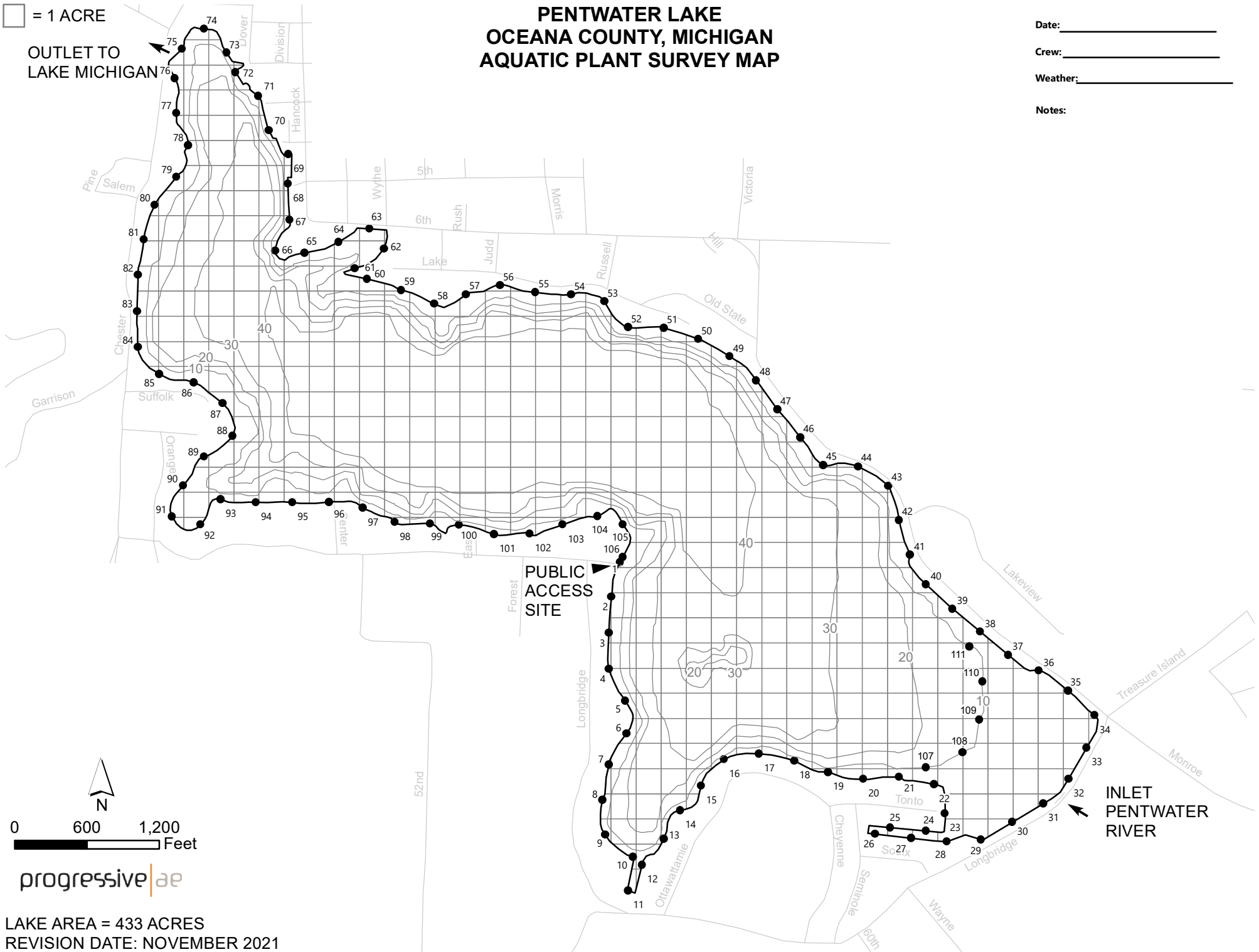
PENTWATER LAKE OCEANA COUNTY, MICHIGAN AQUATIC PLANT SURVEY MAP

Date: _____

Crew: _____

Weather: _____

Notes:



0 600 1,200 Feet

progressive|ae

LAKE AREA = 433 ACRES
REVISION DATE: NOVEMBER 2021

Pentwater Lake

September 6, 2018

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
1	15C	1B	9B	20B	25B							
2	15C	9B	20B	25C								
3	15C	20B	25C									
4	30B	15C	20B	31C	9B	4B						
5	15C	25C	20B	9B								
6	44B	15C	25C	20C	40B	14B						
7	31C	14B	20C									
8	15C	20C	31B	44A								
9	14C	15C	20B	44A								
10	20B	15B	14B									
11	20B	15B										
12	20B	9B	14B									
13	20C	15B	1A									
14	1A	20C	44C									
15	44C	9B	15C	14B								
16	44D	20C	14B	25C	1B							
17	44D	25C										
18	44D	25C	15C	40B	39B	9B						
19	44D	25B	20B									
20	22B	20D	44D	15C								
21	20C	44B	15C	25B								
22	8B	9B	15B	20B								
23	46B	5B	8C	9B	25B	20B						
24	20C	22B	8C	5B	15B							
25	5B	1B	15B									

Pentwater Lake

September 6, 2018

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
26	15B	1A										
27	1A	15B	20B									
28	5C	20C	22B	14C								
29	1A	24B	15B	22B								
30	25C	22C	1B	21C	20B	14C						
31	24B	1B	20C	15C	22B							
32	14B	20D	1B									
33	22C	20D	1B	21C	9B							
34	1B	22C	20C	21C	5B	14B						
35	21C	22B	5B	20C	1B							
36	20C	15B	22B									
37	9C	15B	22C	21B	14B							
38	20C	22B	5B	15C								
39	15C	22B	20C	8B	9B							
40	20D	22B	15B									
41	20C	9B	15C	14A	21B							
42	9B	15D	20C	39D	22B							
43	15C	20D	39D									
44	15C	20D	39B									
45	15C	20C	9B	1A	39B							
46	39C	22B	20C	15D								
47	5B	15C	25D	1B	20C							
48	9B	40B	5B	22B	25D	15C	39C					
49	9B	22B	20B	15D	25C	39C	5B					
50	9B	15D	39B	20C								

Pentwater Lake

September 6, 2018

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
51	15D	20B	14A	5B	22B							
52	15D	20C	22B	9B								
53	15D	9B	20B	39B	22B							
54	15C	9B	22B	20B								
55	15B	20B	9B									
56	15C	9B	20B									
57	15C	20C	22A	5A	14B	44B						
58	44D	15C	20B									
59	15C	9B	20C									
60	20C	15C	14B	22B	1B							
61	14C	15D	1A	9B								
62	15B											
63	15B	20B										
64	15B	20B										
65	20B											
66	15B											
67	20C	15B										
68	15B											
69												
70												
71	20B	15C	9B									
72	20B	9B	15C									
73	15C	20B	9B									
74	15C	9B										
75												

Pentwater Lake

September 6, 2018

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
76	9B	15B										
77	9B	20C	15C									
78	15C	9B	1A	22A								
79	20B	9B	15C									
80	1A	20C	15C	9B								
81	15C	9B	20C									
82	15D	20C										
83	15D	14C	9B	5B	20B							
84	15C	14C	20C									
85	15C	14C										
86	15C	20C										
87	15D	9B	1B									
88	20B	14B	15D									
89	45B	39B	15D	20C								
90	14A	15D	22A	20B	39B							
91	1A	15D	20B	14C	9B	22B						
92	15D	9B	1A	20C	14B							
93	14C	15D	20C	39A								
94	31C	14C	15C	20C	25C							
95	25C	15C	20C	9B								
96	25C	15C	9C	20B								
97	9C	15C	39B									
98	15D	9C	20B	22A								
99	20C	15B	45B	39B								
100	9B	15C	20C	1A	39B							

Pentwater Lake

September 6, 2018

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
101	15C	20C	9C									
102	9C	15D	20B	22A								
103	15C	20B										
104	45B	15D	9B	20B	40B							
105	15C	9C	14C	1A								
106	25B	15C	1A	20C	22A							