

**Standard Aquatic Vegetation Summary Sheet**

Lake Name: Pentwater  
 County: Oceana  
 Surveyor: Rick Buteyn, Wynona Danes  
 Survey Date: 8-Aug-17  
 Total Number of AVAS Sites: 106

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 x 10	C x 40	D x 80	Sum	%		
1	Eurasian milfoil	7	43	19	1	7	430	760	80	1,277	12.0	1	<i>Myriophyllum spicatum</i>
2	Curly leaf pondweed	1		1		1	0	40	0	41	0.4	2	<i>Potamogeton crispus</i>
3	Chara		6	1	1	0	60	40	80	180	1.7	3	<i>Chara sp.</i>
4	Thinleaf pondweed	17	11			17	110	0	0	127	1.2	4	<i>Potamogeton sp.</i>
5	Flatstem pondweed	3	17	4	1	3	170	160	80	413	3.9	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					0	0	0	0	0	0.0	8	<i>Potamogeton praelongus</i>
9	Richardsons pondweed	5	57	12	2	5	570	480	160	1,215	11.5	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	2	18	4		2	180	160	0	342	3.2	14	<i>Heteranthera dubia</i>
15	Wild celery	3	30	34	21	3	300	1,360	1,680	3,343	31.5	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	14	31	9	1	14	310	360	80	764	7.2	20	<i>Ceratophyllum demersum</i>
21	Elodea	1	5	4	2	1	50	160	160	371	3.5	21	<i>Elodea canadensis</i>
22	Utricularia spp.	3	6	2		3	60	80	0	143	1.3	22	<i>Utricularia vulgaris</i>
23	Bladderwort-mini					0	0	0	0	0	0.0	23	<i>Utricularia minor</i>
24	Buttercup					0	0	0	0	0	0.0	24	<i>Ranunculus sp.</i>
25	Najas flexilis	3	18	5	2	3	180	200	160	543	5.1	25	<i>Najas flexilis</i>
26	Brittle naiad					0	0	0	0	0	0.0	26	<i>Najas minor</i>
27	Sago pondweed		2			0	20	0	0	20	0.2	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	3				3	0	0	0	3	0.0	30	<i>Nymphaea odorata</i>
31	Nuphar	1	3			1	30	0	0	31	0.3	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		1			0	10	0	0	10	0.1	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	Pickerelweed					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	2	6	7	2	2	60	280	160	502	4.7	39	<i>Typha sp.</i>
40	Bulrushes		2	1		0	20	40	0	60	0.6	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		1			0	10	0	0	10	0.1	43	<i>Lythrum salicaria</i>
44	Starry stonewort			2	1	0	0	80	80	160	1.5	44	<i>Nitellopsis obtusa</i>
45	Phragmites			2		0	0	80	0	80	0.8	45	<i>Phragmites australis</i>
46	Carolina fanwort		1			0	10	0	0	10	0.1	46	<i>Cabomba caroliniana</i>

Total: 91.0

□ = 1 ACRE

OUTLET TO LAKE MICHIGAN

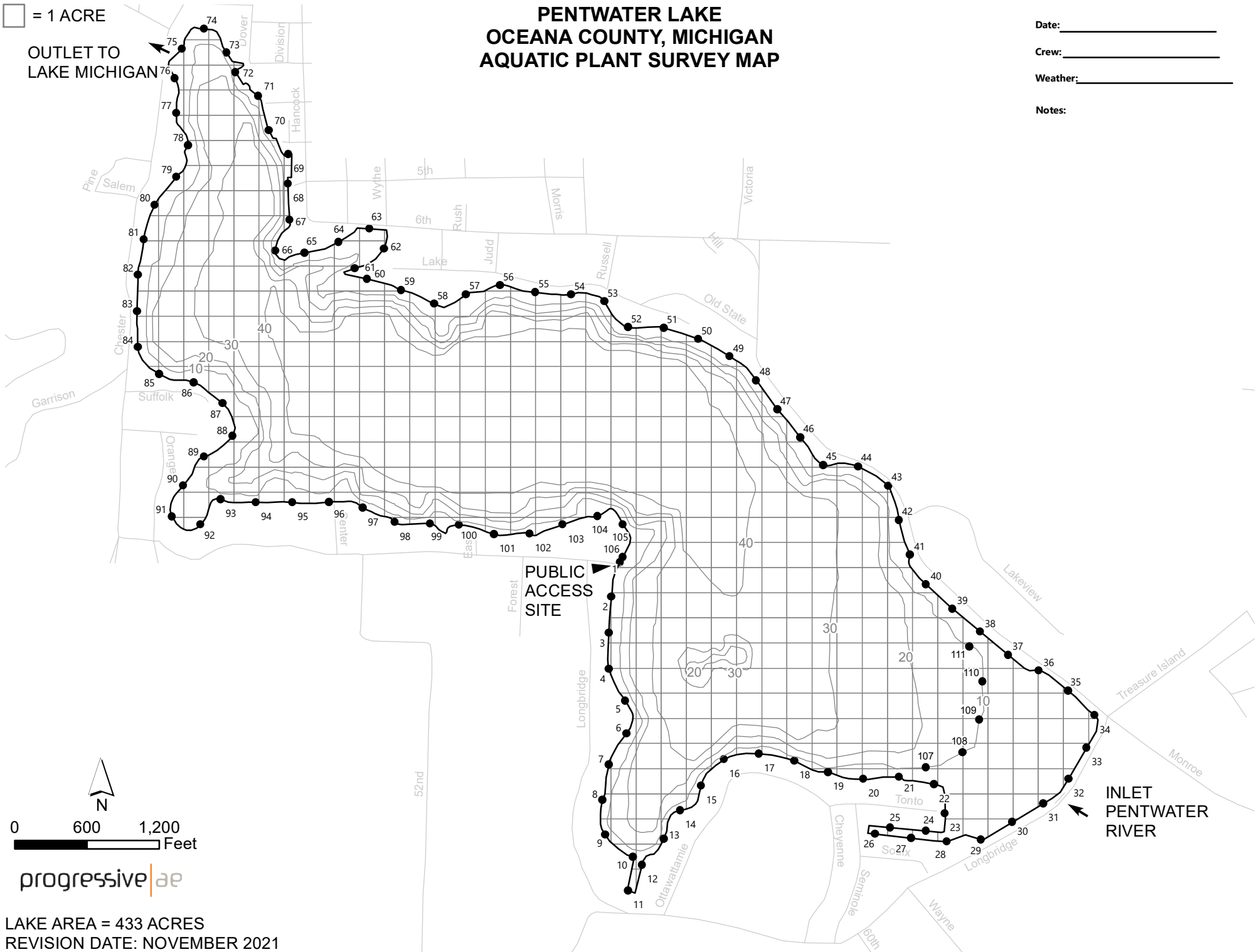
# PENTWATER LAKE OCEANA COUNTY, MICHIGAN AQUATIC PLANT SURVEY MAP

Date: \_\_\_\_\_

Crew: \_\_\_\_\_

Weather: \_\_\_\_\_

Notes:



0 600 1,200 Feet

progressive|ae

LAKE AREA = 433 ACRES  
REVISION DATE: NOVEMBER 2021

# Pentwater Lake

## August 8, 2017

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
1	1c	15c	9b	5b	20a							
2	1c	9c	15c	25b								
3	1b	15c	20b	25b	14b	21b						
4	9b	20b	15b	25b	1b	14b	34b					
5	1b	15c	31b	14b	20c							
6	15d	9b	25b	1b	39a	20b						
7	15c	20c	31b	44c	25b	1b						
8	1b	15b	20c	4a	30a	14b	9b					
9	1c	15b	4a	20b	9b	5b						
10	14c	1b	3b	4b	15c							
11	5b	20b	1c	15b	14b							
12	20b	1b	15b	14c	9b							
13	9b	20c	1b	15b	25b	21b						
14	1b	20b	9c	14b	4a	44c	25c					
15	1c	15c	14b	20c								
16	25b	15b	1b	44d								
17	3d	15b	1b	9b								
18	9b	1b	15c	39c	3b							
19	1a	25c	3c									
20	3b	15b										
21												
22	15c	5b	20b	9b								
23	5d	22a	2c	9d	1b	30a						
24	1b	5b	9b	22b	21b							
25	1b	20b	5b	9b								

# Pentwater Lake

# August 8, 2017

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

# Pentwater Lake

## August 8, 2017

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
51	1c	15d	9b	20c	25a							
52	15d	1c	14b	9c	20a							
53	15d	1c	9b	25b								
54	1b	15b	25b									
55	3b	1b	15b	9a	25b							
56	1c	25b	15b									
57	1c	20b	9b	15c								
58	1c	15c	20b	9b	4a	2a						
59	1c	15b	25b									
60	9d	1c	15c	20b	14b							
61	15b	20b	1b	5b								
62	1b	20b	4b									
63	15c	43b	5b									
64	20a	15a										
65	9b											
66	5a											
67	9b											
68	15a											
69	15b											
70												
71	9c	15b										
72	9b	20a	15a									
73	9b											
74	9b	1a	15c	4a								
75	1c	15c										

# Pentwater Lake

## August 8, 2017

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
76	9c	15b										
77	15c	9c	20a	1b	4a							
78	1b	20b	15b	9b	5a	4b						
79	15b	9b	20b									
80	4b	20a	15b	9b	1a							
81	4a	15c	9b	20a	1b							
82	14a	9b	15c	1b	25c							
83	1b	15c	14b	9a								
84	14c	15b	9b	25b	20b	5b	3b					
85	4a	9c	15c	1c								
86	15b	9b										
87	1a	15b	4a	9b	25a	3b						
88	1b	9b	15c	40b	39b							
89	9b	15c	4a	39b	20a							
90	22a	25d	9b	15c	1b	5b	4a					
91	25c	20b	1b	15c	21c	9b						
92	20c	1b	9b	15c								
93	4a	1b	14b	15d	20b							
94	25d	15d	9b	20b	31b	4a						
95	25c	15c	9c	1a	4a							
96	15b	9a										
97	15c	9b	39c									
98	4b	20b	9c	27b	15c							
99	25b	15b	9b	20a	39b	46b						
100	15b	20a	9b	39b								

# Pentwater Lake

August 8, 2017

AVAS	1	2	3	4	5	6	7	8	9	10	11	12
101	15b	1d	9b									
102	9b	1b	15b	21a	25b							
103	15d	1b	9b	25b	4b							
104	1b	15c	39b									
105	15b	1b	9b	5b	39a							
106	1c	5b	15b	25b	9b	20b						