

Date	Array Line Species	Array Type	Weights (kg)	Yield (kg/m)	Weights (lbs)	Yield (lbs/ft)	Comments
6/29/23 A	1 Nereocystis	Nereocystis Only	132.9	14.5	293.0	9.8	
6/29/23 A	2 Nereocystis	Nereocystis Only	108.9	11.9	240.1	8.0	
6/29/23 A	3 Nereocystis	Nereocystis Only	59	6.5	130.1	4.3	
6/29/23 A	4 Nereocystis	Nereocystis Only	38.3	4.2	84.4	2.8	10' of the line stripped and no s
6/29/23 A	5 Nereocystis	Nereocystis Only	52.5	5.7	115.7	3.9	
6/29/23 A	6 Nereocystis	Nereocystis Only	74.3	8.1	163.8	5.5	
6/29/23 A	7 Nereocystis	Nereocystis Only	40.4	4.4	89.1	3.0	
6/29/23 A	8 Nereocystis	Nereocystis Only	12.6	1.4	27.8	0.9	
6/29/23 A	9 Nereocystis	Nereocystis Only	158.4	17.3	349.2	11.6	
6/29/23 B	1 Nereocystis	Combined	124	13.6	273.4	9.1	
6/29/23 B	2 Saccharina	Combined	75	8.2	165.3	5.5	
6/29/23 B	3 Nereocystis	Combined	136.6	14.9	301.2	10.0	
6/29/23 B	4 Saccharina	Combined	47.8	5.2	105.4	3.5	
6/29/23 B	5 Nereocystis	Combined	120.2	13.1	265.0	8.8	
6/29/23 B	6 Saccharina	Combined	55.9	6.1	123.2	4.1	
6/29/23 B	7 Nereocystis	Combined	124.4	13.6	274.3	9.1	
6/29/23 B	8 Saccharina	Combined	77.7	8.5	171.3	5.7	
6/29/23 B	9 Nereocystis	Combined	150.7	16.5	332.2	11.1	
6/29/23 C	1 Saccharina	Saccharina Only	62.35	6.8	137.5	4.6	
6/29/23 C	2 Saccharina	Saccharina Only	62.35	6.8	137.5	4.6	
6/29/23 C	3 Saccharina	Saccharina Only	73.2	8.0	161.4	5.4	
6/29/23 C	4 Saccharina	Saccharina Only	29.2	3.2	64.4	2.1	
6/29/23 C	5 Saccharina	Saccharina Only	62.9	6.9	138.7	4.6	
6/29/23 C	6 Saccharina	Saccharina Only	40.1	4.4	88.4	2.9	
6/29/23 C	7 Saccharina	Saccharina Only	54.2	5.9	119.5	4.0	
6/29/23 C	8 Saccharina	Saccharina Only	46.2	5.1	101.9	3.4	
6/29/23 C	9 Saccharina	Saccharina Only	97.2	10.6	214.3	7.1	
6/30/23 D	1 Nereocystis	Combined	136.4	14.9	300.7	10.0	
6/30/23 D	2 Saccharina	Combined	49.4	5.4	108.9	3.6	
6/30/23 D	3 Nereocystis	Combined	90	9.8	198.4	6.6	
6/30/23 D	4 Saccharina	Combined	36.4	4.0	80.2	2.7	

6/30/23 D	5 Nereocystis	Combined	130.6	14.3	287.9	9.6
6/30/23 D	6 Saccharina	Combined	51.5	5.6	113.5	3.8
6/30/23 D	7 Nereocystis	Combined	115.4	12.6	254.4	8.5
6/30/23 D	8 Saccharina	Combined	51.5	5.6	113.5	3.8
6/30/23 D	9 Nereocystis	Combined	158.2	17.3	348.8	11.6
6/29/23 E	1 Nereocystis	Nereocystis Only	129.8	14.2	286.2	9.5
6/29/23 E	2 Nereocystis	Nereocystis Only	65.7	7.2	144.8	4.8
6/29/23 E	3 Nereocystis	Nereocystis Only	43.8	4.8	96.6	3.2
6/29/23 E	4 Nereocystis	Nereocystis Only	96.4	10.5	212.5	7.1
6/29/23 E	5 Nereocystis	Nereocystis Only	32.5	3.6	71.7	2.4
6/29/23 E	6 Nereocystis	Nereocystis Only	52.8	5.8	116.4	3.9
6/29/23 E	7 Nereocystis	Nereocystis Only	38.9	4.3	85.8	2.9
6/29/23 E	8 Nereocystis	Nereocystis Only	40.85	4.5	90.1	3.0
6/29/23 E	9 Nereocystis	Nereocystis Only	122.55	13.4	270.2	9.0
6/29/23 F	1 Saccharina	Saccharina Only	119.5	13.1	263.5	8.8
6/29/23 F	2 Saccharina	Saccharina Only	33.7	3.7	74.3	2.5
6/29/23 F	3 Saccharina	Saccharina Only	26.2	2.9	57.8	1.9
6/29/23 F	4 Saccharina	Saccharina Only	63.9	7.0	140.9	4.7
6/29/23 F	5 Saccharina	Saccharina Only	17.6	1.9	38.8	1.3
6/29/23 F	6 Saccharina	Saccharina Only	43.6	4.8	96.1	3.2
6/29/23 F	7 Saccharina	Saccharina Only	58.2	6.4	128.3	4.3
6/29/23 F	8 Saccharina	Saccharina Only	26.6	2.9	58.6	2.0
6/29/23 F	9 Saccharina	Saccharina Only	44.7	4.9	98.5	3.3
6/30/23 G	1 Saccharina	Saccharina Only	43.75	4.8	96.5	3.2
6/30/23 G	2 Saccharina	Saccharina Only	43.75	4.8	96.5	3.2
6/30/23 G	3 Saccharina	Saccharina Only	22.8	2.5	50.3	1.7
6/30/23 G	4 Saccharina	Saccharina Only	39.2	4.3	86.4	2.9
6/30/23 G	5 Saccharina	Saccharina Only	37.5	4.1	82.7	2.8
6/30/23 G	6 Saccharina	Saccharina Only	39.9	4.4	88.0	2.9
6/30/23 G	7 Saccharina	Saccharina Only	36.2	4.0	79.8	2.7
6/30/23 G	8 Saccharina	Saccharina Only	40.2	4.4	88.6	3.0
6/30/23 G	9 Saccharina	Saccharina Only	95.8	10.5	211.2	7.0

6/30/23 H	1 Nereocystis	Combined	170.8	18.7	376.5	12.6
6/30/23 H	2 Saccharina	Combined	21.3	2.3	47.0	1.6
6/30/23 H	3 Nereocystis	Combined	90.6	9.9	199.7	6.7
6/30/23 H	4 Saccharina	Combined	38.7	4.2	85.3	2.8
6/30/23 H	5 Nereocystis	Combined	109.9	12.0	242.3	8.1
6/30/23 H	6 Saccharina	Combined	43.1	4.7	95.0	3.2
6/30/23 H	7 Nereocystis	Combined	95.9	10.5	211.4	7.0
6/30/23 H	8 Saccharina	Combined	74.4	8.1	164.0	5.5
6/30/23 H	9 Nereocystis	Combined	194.6	21.3	429.0	14.3
6/30/23 I	1 Nereocystis	Nereocystis Only	110.8	12.1	244.3	8.1
6/30/23 I	2 Nereocystis	Nereocystis Only	60.9	6.7	134.3	4.5
6/30/23 I	3 Nereocystis	Nereocystis Only	43.3	4.7	95.5	3.2
6/30/23 I	4 Nereocystis	Nereocystis Only	72.9	8.0	160.7	5.4
6/30/23 I	5 Nereocystis	Nereocystis Only	51.5	5.6	113.5	3.8
6/30/23 I	6 Nereocystis	Nereocystis Only	29.2	3.2	64.4	2.1
6/30/23 I	7 Nereocystis	Nereocystis Only	57.5	6.3	126.8	4.2
6/30/23 I	8 Nereocystis	Nereocystis Only	91.7	10.0	202.2	6.7
6/30/23 I	9 Nereocystis	Nereocystis Only	85.7	9.4	188.9	6.3
6/28/23 J	1 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	2 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	3 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	4 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	5 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	6 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	7 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	8 Nereocystis	Nereocystis Only	77.2	8.4	170.2	5.7
6/28/23 J	9 Nereocystis	Nereocystis Only	37.7	4.1	83.1	2.8
6/28/23 K	1 Saccharina	Saccharina Only	95.5	10.4	210.5	7.0
6/28/23 K	2 Saccharina	Saccharina Only	25.2	2.8	55.6	1.9
6/28/23 K	3 Saccharina	Saccharina Only	68.9	7.5	151.9	5.1
6/28/23 K	4 Saccharina	Saccharina Only	61.7	6.7	136.0	4.5
6/28/23 K	5 Saccharina	Saccharina Only	87.8	9.6	193.6	6.5

6/28/23 K	6 Saccharina	Saccharina Only	52.1	5.7	114.9	3.8
6/28/23 K	7 Saccharina	Saccharina Only	70.8	7.7	156.1	5.2
6/28/23 K	8 Saccharina	Saccharina Only	92.1	10.1	203.0	6.8
6/28/23 K	9 Saccharina	Saccharina Only	121.6	13.3	268.1	8.9
6/26/23 L	1 Nereocystis	Combined	157.85	17.3	348.0	11.6
6/26/23 L	2 Saccharina	Combined	50.1	5.5	110.5	3.7
6/26/23 L	3 Nereocystis	Combined	102.2	11.2	225.3	7.5
6/26/23 L	4 Saccharina	Combined	44.7	4.9	98.5	3.3
6/26/23 L	5 Nereocystis	Combined	92.8	10.1	204.6	6.8
6/26/23 L	6 Saccharina	Combined	34.3	3.8	75.6	2.5
6/26/23 L	7 Nereocystis	Combined	115	12.6	253.5	8.5
6/26/23 L	8 Saccharina	Combined	79.4	8.7	175.0	5.8
6/26/23 L	9 Nereocystis	Combined	152.2	16.6	335.5	11.2

eedstring

6/28/2023				Percent of Air		
Array	open water	A	B	A(NI)	B(NI+SI)	open water
Air	1751	1538.6	792.1	1	1	1
surface	978	783.5	362.9	0.5092	0.4581	0.5585
1	630.6	7.07	6.47	0.0046	0.0082	0.3601
2	491	22.07	28.67	0.0143	0.0362	0.2804
3	377.5		43.64		0.0551	0.2156
4	285.6		51.64		0.0652	0.1631
5	200.1		47		0.0593	0.1143
6	176.35					0.1007
7	125.36					0.0716
time	15:36	15:44	16:00			
sun angle	51 degrees					

Phosphate Woody Island
2023

Std μM	A885	- blank
0.0	0.0038	0.0000
0.5	0.0093	0.0055
1.0	0.0152	0.0114
2.0	0.0297	0.0259
4.0	0.0630	0.0592
6.0	0.0968	0.0930

0.015

Std μM	A885	- blank
0.0	0.0039	0.0000
0.5	0.0073	0.0034
1.0	0.0110	0.0071
2.0	0.0275	0.0236
4.0	0.0596	0.0557
6.0	0.0866	0.0827

A885 μM

2/11/2023	0.0276	0.0297	0.0249	1.66
3/5/2023	0.0181	0.0192	0.0149	0.99
4/14/2023	0.0182	0.0183	0.0145	0.96
5/12/2023	0.0122	0.0118	0.0082	0.55
5/30/2023	0.0297	0.0307	0.0264	1.76
6/13/2023	0.0208	0.0194	0.0163	1.09
7/4/2023	0.0222	0.0221	0.0184	1.22

Plusup NOx - Woody Island 2022-23

date	depth	Ab
2/11/2023	0.0	0.2285
2/11/2023	0.0	0.2499
3/5/2023	0.0	0.2071
3/5/2023	0.0	0.2115
4/14/2023	0.0	0.1059
4/14/2023	0.0	0.1002
5/12/2023	0.0	0.0536
5/12/2023	0.0	0.0522
5/30/2023	0.0	0.0721
5/30/2023	0.0	0.0721
6/13/2023	0.0	0.0787
6/13/2023	0.0	0.0791
7/4/2023	0.0	0.0808
7/4/2023	0.0	0.0879
2/11/2023	2.0	0.2254
2/11/2023	2.0	0.2292
3/5/2023	2.0	0.1968
3/5/2023	2.0	0.1980
4/14/2023	2.0	0.1079
4/14/2023	2.0	0.1065
5/12/2023	2.0	0.0794
5/12/2023	2.0	0.0804
5/30/2023	2.0	0.0467
5/30/2023	2.0	0.0464
6/13/2023	2.0	0.0731
6/13/2023	2.0	0.0710
7/4/2023	2.0	0.0921
7/4/2023	2.0	0.0892
2/11/2023	5.0	0.2216
2/11/2023	5.0	0.2135
3/5/2023	5.0	0.1837
3/5/2023	5.0	0.1820
4/14/2023	5.0	0.1023
4/14/2023	5.0	0.1017
5/12/2023	5.0	0.0505
5/12/2023	5.0	0.0511
5/30/2023	5.0	0.0686
5/30/2023	5.0	0.0686
6/13/2023	5.0	0.0905
6/13/2023	5.0	0.0907
7/4/2023	5.0	0.0649
7/4/2023	5.0	0.0625
2/11/2023	10.0	0.1949
2/11/2023	10.0	0.2122
3/5/2023	10.0	0.1935
3/5/2023	10.0	0.1979
4/14/2023	10.0	0.1185
4/14/2023	10.0	0.1138
5/12/2023	10.0	0.1023
5/12/2023	10.0	0.1037

5/30/2023	10.0	0.0577
5/30/2023	10.0	0.0583
6/13/2023	10.0	0.0862
6/13/2023	10.0	0.0846
7/4/2023	10.0	0.1151
7/4/2023	10.0	0.1046

cor Ab	[NO _x] [μM]
0.2155	20.92
0.2369	23.00
0.2071	20.36
0.2115	20.80
0.0916	9.00
0.0859	8.44
0.0456	4.15
0.0442	4.02
0.0675	6.13
0.0675	6.13
0.0741	6.73
0.0745	6.77
0.0762	6.92
0.0833	7.57
0.2124	20.62
0.2162	20.99
0.1968	19.35
0.1980	19.47
0.0936	9.20
0.0922	9.06
0.0714	6.49
0.0724	6.58
0.0421	3.82
0.0418	3.80
0.0685	6.22
0.0664	6.03
0.0875	7.95
0.0846	7.69
0.2086	20.25
0.2005	19.47
0.1837	18.06
0.1820	17.90
0.0880	8.65
0.0874	8.59
0.0425	3.86
0.0431	3.92
0.0640	5.81
0.0640	5.81
0.0859	7.80
0.0861	7.82
0.0603	5.48
0.0579	5.26
0.1819	17.66
0.1992	19.34
0.1935	19.03
0.1979	19.46
0.1042	10.24
0.0995	9.78
0.0943	8.57
0.0957	8.70

0.0531	4.82
0.0537	4.88
0.0816	7.41
0.0800	7.27
0.1105	10.04
0.1000	9.09

Secchi depth in meters

	Secchi dn	Secchi up	Avg
2/12/2023	5.0	4.5	4.8
3/5/2023	13.0	12.5	12.8
4/14/2023	7.5	7.0	7.3
4/29/2023	6.5	6.0	6.3
5/12/2023	5.5	5.0	5.3
5/30/2023	5.0	4.5	4.8
6/13/2023	4.0	3.5	3.8
7/4/2023	4.0	3.5	3.8

Water parameters for Woody Island site 202

Date	Depth (m)	Temp °C
2/12/2023	0	4.3
3/5/2023	0	4.7
4/14/2023	0	3.6
4/29/2023	0	5.5
5/12/2023	0	5.8
5/30/2023	0	7.8
6/13/2023	0	8.7
7/4/2023	0	10.0
2/12/2023	1	4.3
3/5/2023	1	4.3
4/14/2023	1	3.6
4/29/2023	1	4.9
5/12/2023	1	5.2
5/30/2023	1	7.3
6/13/2023	1	7.8
7/4/2023	1	9.7
2/12/2023	2	4.3
3/5/2023	2	4.2
4/14/2023	2	3.6
4/29/2023	2	4.7
5/12/2023	2	5.1
5/30/2023	2	7.3
6/13/2023	2	7.7
7/4/2023	2	9.7
2/12/2023	3	4.3
3/5/2023	3	4.1
4/14/2023	3	3.6
4/29/2023	3	4.6
5/12/2023	3	5.1
5/30/2023	3	7.3
6/13/2023	3	7.6
7/4/2023	3	9.1
2/12/2023	4	4.3
3/5/2023	4	4.0
4/14/2023	4	3.6
4/29/2023	4	4.5
5/12/2023	4	5.1
5/30/2023	4	7.1
6/13/2023	4	7.3
7/4/2023	4	9.0
2/12/2023	5	4.2
3/5/2023	5	4.0
4/14/2023	5	3.6
4/29/2023	5	4.5
5/12/2023	5	5.0
5/30/2023	5	7.0
6/13/2023	5	7.0
7/4/2023	5	8.9
2/12/2023	6	4.2
3/5/2023	6	4.0

4/14/2023	6	3.5
4/29/2023	6	4.4
5/12/2023	6	5.0
5/30/2023	6	6.9
6/13/2023	6	7.0
7/4/2023	6	8.8
2/12/2023	7	4.2
3/5/2023	7	3.9
4/14/2023	7	3.6
4/29/2023	7	4.4
5/12/2023	7	5.0
5/30/2023	7	6.9
6/13/2023	7	6.8
7/4/2023	7	8.6
2/12/2023	8	4.2
3/5/2023	8	3.9
4/14/2023	8	3.6
4/29/2023	8	4.4
5/12/2023	8	4.9
5/30/2023	8	6.7
6/13/2023	8	6.8
7/4/2023	8	8.6
2/12/2023	9	4.2
3/5/2023	9	3.9
4/14/2023	9	3.6
4/29/2023	9	4.4
5/12/2023	9	4.9
5/30/2023	9	6.7
6/13/2023	9	6.7
7/4/2023	9	8.6
2/12/2023	10	4.2
3/5/2023	10	3.9
4/14/2023	10	3.6
4/29/2023	10	4.4
5/12/2023	10	4.9
5/30/2023	10	6.6
6/13/2023	10	6.6
7/4/2023	10	8.5

3.

Salinity

32.44
31.50
31.16
32.27
32.17
32.21
33.18
ND
32.71
31.80
31.29
33.24
32.59
32.78
33.97
ND
33.11
31.90
31.34
33.36
32.79
33.37
34.56
ND
33.42
32.10
31.53
33.35
33.09
33.45
34.91
ND
33.55
32.40
31.73
33.42
33.21
33.51
35.21
ND
33.56
32.60
31.88
33.37
33.46
33.54
35.63
ND
33.74
32.60

31.96

33.50

33.54

33.57

35.72

ND

33.82

33.10

32.10

33.54

33.50

33.63

35.95

ND

33.81

34.10

32.33

33.54

33.53

33.71

36.20

ND

34.07

35.00

32.41

33.59

33.61

33.89

36.28

ND

33.95

35.10

32.48

33.61

33.64

33.97

36.17

ND