Composition & Dominance, Growth Rates and Microcystin estimates

Town Beach

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	Measured MC (ug L-1)
6/1/2022	<50						
6/15/2022	<50	4.02					
6/21/2022	<50	0.32					
6/28/2022	<50	3.53					
7/5/2022	<50	2.38					
7/12/2022	<50	1.92					

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	**Measured MC (ug L-1)**	**PST (ug ug-1)**
6/15/2022	WLW	18.13		1.258398	1.083675	0.012		
6/21/2022	WLW	0.55		-0.25964	0.27016	0.002		
6/28/2022	WLW	8.15		0.911158	2.387009	0.244	0.316	0.04
7/5/2022	WLW	5.15		0.711807	2.158155	0.144	**0.302**	**0.06**
7/12/2022	WLW	1.46		0.164353	1.529677	0.034		

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	**Measured MC (ug L-1)**	**PST (ug ug-1)**
6/15/2022	Dolichospermum (100%)	BFC	1554		3.191451	2.119599	0.132		
6/21/2022	Dolichospermum (100%)	BFC	70		1.845098	1.398088	0.025		
6/28/2022	Microcystis (95%)	BFC	140.15		2.146593	3.805289	6.387	1.57	0.01
7/5/2022	Microcystis (50%)	BFC	20.69		1.31576	2.851493	0.710	0.838	0.04
7/12/2022	Microcystis (95%)	BFC	41.86	0.100669	1.621799	3.202826	1.595		

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	**Measured MC (ug L-1)**	PST (ug ug-1)
6/15/2022	Grab	1788		3.252368	2.152244	0.142	N/D	
6/21/2022								
6/28/2022	Grab	1820		3.260071	5.083562	121.22	**69.19**	0.04
7/5/2022	Grab	14416		4.158845	6.115354	1304.23	**232.38**	0.02
7/12/2022								

Deep 1

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	<50					
6/15/2022	<50	2.39				
6/28/2022	<50	2.38				
7/5/2022	<50	6.53				
7/12/2022	<50	1.69				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/1/2022								
6/15/2022	WLW	5.81		0.764176	0.818822	0.007		
6/28/2022	WLW	1.69		0.227887	1.602614	0.040	0.277	0.16
7/5/2022	WLW	3.53		0.547775	1.969845	0.093		
7/12/2022	WLW	1		0	1.341	0.022		

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)	Measured MC (ug L-1)	PST (ug ug-1)
6/1/2022	Dolichospermum (100%)	BFC	90.46						
6/15/2022	Dolichospermum (100%)	BFC	585.7	0.133421	2.767675	1.892497	0.078		
6/21/2022	Dolichospermum (100%)	BFC	28.13						
6/28/2022	Microcystis (95%)	BFC	61.16		1.786467	3.391865	2.465	0.993	0.02
7/5/2022	Microcystis (50%)	BFC	12.32		1.090611	2.593021	0.392		
7/12/2022	Microcystis (95%)	BFC	22.84	0.088184	1.358696	2.900783	0.796		

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)

Deep 2

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	<50					
6/15/2022	<50	1.64				
6/28/2022	<50	1.46				
7/5/2022	<50	1.23				
7/12/2022	<50	1.23				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	WLW					
6/15/2022	WLW	9.68		0.985875	0.937631	0.009
6/28/2022	WLW	1.23		0.089905	1.444211	0.028
7/5/2022	WLW	1.69		0.227887	1.602614	0.040
7/12/2022	WLW	1.23		0.089905	1.444211	0.028

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC	167.2				
6/15/2022	Dolichospermum (100%)	BFC	1682	0.164896	3.225826	2.13802	0.137
6/28/2022	Microcystis (95%)	BFC	26.97		1.430881	2.983651	0.963
7/5/2022	Microcystis (50%)	BFC	32.32		1.509471	3.073873	1.185
7/12/2022	Microcystis (95%)	BFC	49.75	0.061618	1.696793	3.288918	1.945

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)

Thoreau's Cove

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	<50	1.69				
6/15/2022	<50					
6/28/2022	<50	1.69				
7/5/2022	<50	1				
7/12/2022	<50	1.23				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	WLW	1.23				
6/15/2022	WLW					
6/28/2022	WLW	2.84		0.453318	1.861409	0.073
7/5/2022	WLW	1.23		0.089905	1.444211	0.028
7/12/2022	WLW	1.23		0.089905	1.444211	0.028

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC	192.2				
6/15/2022	Dolichospermum (100%)	BFC	1064	0.122232	3.026942	2.031438	0.108
6/28/2022	Microcystis (95%)	BFC	49.76		1.69688	3.289019	1.945
7/5/2022	Microcystis (50%)	BFC	6.76		0.829947	2.293779	0.197
7/12/2022	Microcystis (95%)	BFC	55.11	0.299758	1.74123	3.339933	2.187

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)

Sachems Cove

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	<50					
6/15/2022	<50	1.63				
7/5/2022	<50	1.69				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	WLW					
6/15/2022	WLW	14.14		1.150449	1.025826	0.011
7/5/2022	WLW	1.69				

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)
6/1/2022	Dolichospermum (100%)	BFC					
6/15/2022	Dolichospermum (100%)	BFC	2223		3.346939	2.202925	0.160
7/5/2022	Microcystis (50%)	BFC	7				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate: Log PC	MC estimate: Log MC	MC estimate: MC (ug L-1)