

Composition & Dominance, Growth Rates and Microcystin estimates

Town Beach

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

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate			measured MC (ug L-1)
				Log PC	Log MC	MC (ug L-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	
7/5/2022	WLW	5.15		0.711807	2.158155	0.144	0.302

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate
6/15/2022	Dolichospermum (100%)	BFC	1554	
6/21/2022	Dolichospermum (100%)	BFC	70	
6/28/2022	Microcystis (95%)	BFC	140.15	
7/5/2022	Microcystis (50%)	BFC	20.69	

Deep 1

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

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate		
				Log PC	Log MC	MC (ug L-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
7/5/2022	WLW	3.53				

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate
6/1/2022	Dolichospermum (100%)	BFC	90.46	
6/15/2022	Dolichospermum (100%)	BFC	585.7	0.133421
6/21/2022	Dolichospermum (100%)	BFC	28.13	
6/28/2022	Microcystis (95%)	BFC	61.16	
7/5/2022	Microcystis (50%)	BFC	12.32	

Deep 2

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

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

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate
6/1/2022	Dolichospermum (100%)	BFC	167.2	
6/15/2022	Dolichospermum (100%)	BFC	1682	0.164896
6/28/2022	Microcystis (95%)	BFC	26.97	
7/5/2022	Microcystis (50%)	BFC	32.32	

Thoreau's Cove

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

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

Dates	Composition & Dominance	Sample Type	PC (ug L-1)	Growth rate
6/1/2022	Dolichospermum (100%)	BFC	192.2	
6/15/2022	Dolichospermum (100%)	BFC	1064	0.122232
6/28/2022	Microcystis (95%)	BFC	49.76	
7/5/2022	Microcystis (50%)	BFC	6.76	

Sachems Cove

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

MC estimate			Measured MC (ug L-1)
Log PC	Log MC	MC (ug L-1)	
3.191451	2.119599	0.132	
1.845098	1.398088	0.025	
2.146593	3.805289	6.387	
1.31576	2.851493	0.710	0.838

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate			Measured MC (ug L-1)
				Log PC	Log MC	MC (ug L-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
7/5/2022	Grab	14416		4.158845	6.115354	1304.23	232.38

MC estimate		
Log PC	Log MC	MC (ug L-1)
2.767675	1.892497	0.078
1.786467	3.391865	2.465

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

MC estimate		
Log PC	Log MC	MC (ug L-1)
3.225826	2.13802	0.137
1.430881	2.983651	0.963

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate		
				Log PC	Log MC	MC (ug L-1)
6/1/2022						
6/15/2022						

MC estimate		
Log PC	Log MC	MC (ug L-1)
3.026942	2.031438	0.108
1.69688	3.289019	1.945

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

MC estimate		
Log PC	Log MC	MC (ug L-1)
3.346939	2.202925	0.160

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate		
				Log PC	Log MC	MC (ug L-1)
6/1/2022						
6/15/2022						