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)
5/4/2022	<50						
5/17/2022	<50						
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**					
7/19/2022	<50	**1.46**					
7/26/2022	<50	**1.69**					
8/2/2022	<50	**0.1**					

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)**
5/4/2022	WLW							
5/17/2022	WLW							
6/1/2022	WLW							
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		
7/19/2022	WLW	**1.23**						
7/26/2022	WLW	**2.61**						
8/2/2022	WLW	**0.1**						

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)**
5/4/2022		BFC							
5/17/2022		BFC							
6/1/2022		BFC							
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		
7/19/2022	Microcystis (95%)	BFC	32.55		1.512551	3.077409	1.195		
7/26/2022	Microcystis (99%)	BFC	28.13		1.44917	3.004647	1.011		
8/2/2022	Microcystis (99%)	BFC	119.05	0.206101	2.075729	3.723937	5.296		

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). ATX (ug L-1 as needed)**	PST (ug ug 1)
5/4/2022	Grab							
5/17/2022	Grab							
6/1/2022	Grab							
6/15/2022	Grab	1788		3.252368	2.152244	0.142	N/D	
6/21/2022	Grab							
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	Grab							
7/19/2022	Grab							
7/36/2022	Grab							

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)
5/4/2022	<50	**0.1**				
5/17/2022	<50	**0.1**				
6/1/2022	<50					
6/15/2022	<50	**2.39**				
6/21/2022	<50					
6/28/2022	<50	**2.38**				
7/5/2022	<50	**6.53**				
7/12/2022	<50	**1.69**				
7/19/2022	<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)
5/4/2022	WLW	**0.1**						
5/17/2022	WLW	**0.1**						
6/1/2022	WLW							
6/15/2022	WLW	5.81		0.764176	0.818822	0.007		
6/21/2022	WLW							
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		
7/19/2022	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)	Measured MC (ug L-1)	PST (ug ug-1)
5/4/2022		BFC	**0.1**						
5/17/2022		BFC	**0.1**						
6/1/2022	Dolichospermum (100%)	BFC	90.46	0.486249					
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		
7/19/2022	Microcystis (95%)	BFC	29.76	0.037807	1.473633	3.032731	1.078		

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)
5/4/2022	<50	**0.1**				
5/17/2022	<50	**0.1**				
6/1/2022	<50					
6/15/2022	<50	**1.64**				
6/21/2022	<50					
6/28/2022	<50	**1.46**				
7/5/2022	<50	**1.23**				
7/12/2022	<50	**1.23**				
7/19/2022	<50	**1.92**				
7/26/2022	<50	**1.92**				
8/2/2022	<50	**0.1**				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate Log PC	MC estimate Log MC	MC estimate MC (ug L-1)
5/4/2022	WLW	**0.1**				
5/17/2022	WLW	**0.1**				
6/1/2022	WLW					
6/15/2022	WLW	9.68		0.985875	0.937631	0.009
6/21/2022	WLW					
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
7/19/2022	WLW	**1.46**				
7/26/2022	WLW	5.61				
8/2/2022	WLW	**1**				

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)
5/4/2022		BFC	**0.1**				
5/17/2022		BFC	**0.1**				
6/1/2022	Dolichospermum (100%)	BFC	167.2	0.530127			
6/15/2022	Dolichospermum (100%)	BFC	1682	0.164896	3.225826	2.13802	0.137
6/21/2022		BFC					
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
7/19/2022	Microcystis (95%)	BFC	19.53				
7/26/2022	Microcystis (995)	BFC	51.86	0.139514	1.714833	3.309628	2.040
8/2/2022	Microcystis (995)	BFC	68.83	0.040442	1.837778	3.450769	2.823

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)
5/4/2022	<50	**0.1**				
5/17/2022	<50					
6/1/2022	<50	**1.69**				
6/15/2022	<50					
6/21/2022	<50					
6/28/2022	<50	**1.69**				
7/5/2022	<50	**1**				
7/12/2022	<50	**1.23**				
7/19/2022	<50	**1.07**				
7/26/2022	<50	**2.15**				
8/2/2022	<50	0.1				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate Log PC	MC estimate Log MC	MC estimate MC (ug L-1)
5/4/2022	WLW	**0.1**				
5/17/2022	WLW					
6/1/2022	WLW	**1.23**				
6/15/2022	WLW					
6/21/2022	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
7/19/2022	WLW	**1.45**				
7/26/2022	WLW	**2.15**				
8/2/2022	WLW	**0.1**				

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)
5/4/2022		BFC	**0.1**				
5/17/2022		BFC					
6/1/2022	Dolichospermum (100%)	BFC	192.2				
6/15/2022	Dolichospermum (100%)	BFC	1064	0.122232	3.026942	2.031438	0.108
6/21/2022		BFC					
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
7/19/2022	Microcystis (95%)	BFC	24.18				
7.26.2022	Microcystis (995)	BFC	38.6	0.066818	1.586587	3.162402	1.453
8/2/2022	Microcystis (995)	BFC	23.72				

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)
5/4/2022	<50					
5/17/2022	<50	**0.1**				
6/1/2022	<50					
6/15/2022	<50	**1.63**				
6/21/2022	<50					
6/28/2022	<50	**1.35**				
7/5/2022	<50	**1.69**				
7/12/2022	<50					
7/19/2022	<50	**2.38**				

Dates	Sample Type	PC (ug L-1)	Growth rate	MC estimate Log PC	MC estimate Log MC	MC estimate MC (ug L-1)
5/4/2022	WLW					
5/17/2022	WLW	**0.1**				
6/1/2022	WLW					
6/15/2022	WLW	14.14		1.150449	1.025826	0.011
6/21/2022	WLW					
6/28/2022	WLW	**2**				
7/5/2022	WLW	**1.69**				
7/12/2022	WLW					
7/19/2022	WLW	**1.46**				

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)
5/4/2022		BFC					
5/17/2022		BFC	**0.1**				
6/1/2022		BFC					
6/15/2022	Dolichospermum (100%)	BFC	2223		3.346939	2.202925	0.160
6/21/2022		BFC					
6/28/2022		BFC	35.3				
7/5/2022	Microcystis (50%)	BFC	7				
7/12/2022		BFC					
7/19/2022	Microcystis (95%)	BFC	16.97				

Bold RED text denotes values less than 3µg/L (Limit of Detection)