

IDEM 2015 SAMPLING RESULTS
Cyanobacteria Cell Counts, Identification and Cyanotoxin Results

Date	Location	Cells/ml	Dominant Species 1	Dominant Species 2	Dominant Species 3	¹ Microcystin ug/l	³ Anatoxin-a ug/l	² Cylindrospermopsis ug/l
9/1	Worster Lake - Potato Creek State Park	370,000	<i>Planktolyngbya limnetica</i>	<i>Raphidiopsis sp.</i>	<i>Planktothrix agardhii</i>	0.23	Not Detected	Not run
9/1	Sand Lake - Chain O'Lakes SP	75,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon flos-aquae</i>	<i>Aphanocapsa sp.</i>	0.26	Not Detected	Not run
9/1	Salamonie Lake - Lost Bridge West SRA	440,000	<i>Aphanizomenon flos-aquae</i>	<i>Dolichospermum sp.</i>	<i>Planktothrix sp.</i>	0.79	Not Detected	Not run
8/31	Cecil M Harden Lake - Raccoon Lake SRA	675,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Merismopedia sp.</i>	Not Detected	Not Detected	Not run
8/31	Monroe Lake - Fairfax SRA	94,000	<i>Microcystis sp.</i>	<i>Planktolyngbya limnetica</i>	<i>Microcystis aeruginosa</i>	Not Detected	Not Detected	Not run
8/31	Hardy Lake - Hardy Lake SRA	410,000	<i>Planktolyngbya limnetica</i>	<i>Microcystis sp.</i>	<i>Aphanizomenon sp.</i>	0.35	Not Detected	Not run
8/31	Brookville Lake - Mounds SRA	250,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Microcystis sp.</i>	0.88	Not Detected	Not run
8/31	Brookville Lake - Quakertown SRA	790,000	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	<i>Raphidiopsis sp.</i>	Not Detected	Not Detected	Not run
8/31	Whitewater Lake - Whitewater Memorial SP	520,000	<i>Microcystis sp.</i>	Picoplankton	<i>Merismopedia sp.</i>	0.21	Not Detected	Not run
8/24	Salamonie Lake - Lost Bridge West SRA	150,000	<i>Aphanizomenon flos-aquae</i>	<i>Dolichospermum sp.</i>	<i>Microcystis sp.</i>	0.58	Not Detected	Not run
8/24	Sand Lake - Chain O'Lakes SP	250,000	<i>Planktothrix agardhii</i>	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	0.32	18.110	Not run
8/24	Worster Lake - Potato Creek State Park	400,000	<i>Raphidiopsis sp.</i>	<i>Planktothrix agardhii</i>	<i>Microcystis sp.</i>	0.21	16.175	Not run
8/24	Mississinewa Lake Miami SRA	42,000	<i>Planktolyngbya limnetica</i>	<i>Microcystis sp.</i>	<i>Dolichospermum sp.</i>	0.21	Not Detected	Not run
8/18	Hardy Lake - Hardy Lake SRA	560,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon sp.</i>	<i>Microcystis sp.</i>	0.49	Not Detected	Not run
8/18	Brookville Lake - Mounds SRA	440,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Raphidiopsis sp.</i>	0.16	Not Detected	Not run
8/18	Brookville Lake - Quakertown SRA	460,000	<i>Planktolyngbya limnetica</i>	<i>Raphidiopsis sp.</i>	<i>Pseudanabaena sp.</i>	Not Detected	Not Detected	Not run
8/18	Whitewater Lake - Whitewater Memorial SP	470,000	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
8/17	Cecil M Harden Lake - Raccoon Lake SRA	525,000	<i>Planktolyngbya limnetica</i>	<i>Merismopedia sp.</i>	<i>Raphidiopsis sp.</i>	Not Detected	Not Detected	Not run
8/17	Monroe Lake - Fairfax SRA	120,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon flos-aquae</i>	<i>Cylindrospermopsis raciborskii</i>	Not Detected	Not Detected	Not run
8/17	Monroe Lake - Paynetown SRA	87,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon flos-aquae</i>	<i>Cylindrospermopsis raciborskii</i>	Not Detected	Not Detected	Not run
8/11	Salamonie Lake - Lost Bridge West SRA	33,500	<i>Dolichospermum sp.</i>	<i>Microcystis sp.</i>	<i>Planktolyngbya limnetica</i>	0.49	10.83	Not Detected
8/11	James Lake - Pokagon State Park	47,000	Picoplankton	<i>Aphanothece sp.</i>	<i>Microcystis sp.</i>	Not Detected	Not Detected	Not Detected
8/11	Sand Lake - Chain O'Lakes SP	200,000	<i>Aphanizomenon flos-aquae</i>	<i>Dolichospermum sp.</i>	Picoplankton	0.53	17.150	Not Detected
8/10	Worster Lake - Potato Creek State Park	530,000	<i>Raphidiopsis sp.</i>	<i>Planktothrix sp.</i>	<i>Planktolyngbya limnetica</i>	0.32	Not Detected	Not Detected
8/10	Mississinewa Lake Miami SRA	110,000	<i>Planktothrix sp.</i>	<i>Dolichospermum sp.</i>	<i>Planktolyngbya limnetica</i>	1.17	Not Detected	Not Detected
8/10	Ferdinand Lake - Ferdinand State Forest	87,000	<i>Aphanocapsa sp.</i>	<i>Merismopedia sp.</i>	<i>Dolichospermum sp.</i>	Not Detected	Not Detected	Not Detected
8/9	Lincoln Lake - Lincoln State Park	12,000	<i>Aphanizomenon sp.</i>	<i>Dolichospermum sp.</i>	<i>Merismopedia sp.</i>	Not Detected	17.100	2.48
8/4	Cecil M Harden Lake - Raccoon Lake SRA	480,000	<i>Planktolyngbya limnetica</i>	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	0.19	Not Detected	Not Detected
8/4	Whitewater Lake - Whitewater Memorial SP	650,000	<i>Merismopedia sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Aphanocapsa sp.</i>	Not Detected	Not Detected	Not Detected
8/4	Brookville Lake - Quakertown SRA	230,000	Picoplankton	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	Not Detected	Not Detected	Not Detected

8/4	Brookville Lake - Mounds SRA	770,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	Picoplankton	0.54	Not Detected	Not Detected
8/3	Hardy Lake - Hardy Lake SRA	400,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Aphanizomenon sp.</i>	1.02	Not Detected	Not Detected
8/3	Monroe Lake - Fairfax SRA	130,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon flos-aquae</i>	<i>Planktothrix sp.</i>	Not Detected	Not Detected	Not Detected
8/3	Monroe Lake - Paynetown SRA	150,000	<i>Planktolyngbya limnetica</i>	<i>Planktothrix sp.</i>	<i>Aphanizomenon sp.</i>	Not Detected	Not Detected	Not Detected
8/3	Starve Hollow Lake - Starve Hollow SRA	61,000	<i>Aphanizomenon flos-aquae</i>	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	Not Detected	Not Detected	Not Detected
8/3	Deam Lake - Deam Lake SRA	11,000	<i>Aphanothece sp.</i>	<i>Aphanocapsa sp.</i>	<i>Merismopedia sp.</i>	Not Detected	Not Detected	Not Detected
7/27	Worster Lake - Potato Creek State Park	205,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon sp.</i>	<i>Planktothrix sp.</i>	0.245	Not Detected	Not run
7/27	Mississinewa Lake Miami SRA	CLOSED	NO ACCESS	FLOODED				
7/21	Hardy Lake - Hardy Lake SRA	430,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon sp.</i>	<i>Cylindrospermopsis raciborskii</i>	4.42	Not Detected	Not Detected
7/20	Brookville Lake - Quakertown SRA	300,000	<i>Planktolyngbya limnetica</i>	Picoplankton	<i>Pseudanabaena sp.</i>	Not Detected		Not Detected
7/20	Brookville Lake - Mounds SRA	810,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Pseudanabaena sp.</i>	0.280	Not Detected	Not Detected
7/20	Cecil M Harden Lake - Raccoon Lake SRA	520,000	<i>Planktolyngbya limnetica</i>	Picoplankton	<i>Pseudanabaena sp.</i>	0.221	Not Detected	Not Detected
7/14	James Lake - Pokagon State Park	49,500	<i>Microcystis sp.</i>	Picoplankton	<i>Planktolyngbya limnetica</i>	Not Detected	Not Detected	Not run
7/14	Sand Lake - Chain O'Lakes SP	46,000	<i>Aphanizomenon flos-aquae</i>	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	0.38	Not Detected	Not run
7/14	Hardy Lake - Hardy Lake SRA	210,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon sp.</i>	4.8	Not Detected	Not run
7/14	Salamonie Lake - Lost Bridge West SRA	3,900	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
7/13	Mississinewa Lake Miami SRA	CLOSED	NO ACCESS	FLOODED			Not Detected	Not run
7/13	Worster Lake - Potato Creek State Park	700,000	<i>Planktothrix isothrix</i>	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	2.95	Not Detected	Not run
7/13	Ferdinand Lake - Ferdinand State Forest	12,000	<i>Aphanocapsa sp.</i>	<i>Dolichospermum sp.</i>	<i>Microcystis sp.</i>	Not Detected	Not Detected	Not run
7/12	Lincoln Lake - Lincoln State Park	14,000	<i>Aphanocapsa sp.</i>	<i>Merismopedia sp.</i>	<i>Dolichospermum sp.</i>	Not Detected	Not Detected	Not run
7/7	Cecil M Harden Lake - Raccoon Lake SRA	380,000	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	Picoplankton	Not Detected	Not Detected	Not run
7/7	Whitewater Lake - Whitewater Memorial SP	53,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Merismopedia sp.</i>	Not Detected	Not Detected	Not run
7/7	Brookville Lake - Quakertown SRA	330,000	<i>Aphanizomenon flos-aquae</i>	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	Not Detected	Not Detected	Not run
7/7	Brookville Lake - Mounds SRA	620,000	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Planktolyngbya limnetica</i>	Not Detected	13.87	Not run
7/6	Hardy Lake - Hardy Lake SRA	250,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	7.83	Not Detected	Not run
7/6	Monroe Lake - Fairfax SRA	20,000	<i>Aphanizomenon flos-aquae</i>	<i>Planktolyngbya limnetica</i>	Picoplankton	Not Detected	Not Detected	Not run
7/6	Monroe Lake - Paynetown SRA	62,000	<i>Aphanizomenon sp.</i>	<i>Planktolyngbya limnetica</i>	<i>Dolichospermum sp.</i>	Not Detected	Not Detected	Not run
7/6	Starve Hollow Lake - Starve Hollow SRA	9,950	<i>Pseudanabaena sp.</i>	<i>Dolichospermum sp.</i>	<i>Planktolyngbya limnetica</i>	Not Detected	Not Detected	Not run
7/6	Deam Lake - Deam Lake SRA	14,000	<i>Merismopedia sp.</i>	<i>Chroococcus sp.</i>	<i>Picoplankton</i>	Not Detected	Not Detected	Not run
6/29	Worster Lake - Potato Creek State Park	510,000	<i>Planktothrix sp.</i>	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	2.12	Not Detected	Not run
6/22	Cecil M Harden Lake - Raccoon Lake SRA	115,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon sp.</i>	Not Detected	Not Detected	Not run
6/22	Brookville Lake - Mounds SRA	310,000	<i>Planktolyngbya limnetica</i>	<i>Aphanizomenon sp.</i>	<i>Pseudanabaena sp.</i>	Not Detected	Not Detected	Not run
6/16	James Lake - Pokagon State Park	170	Picoplankton			Not Detected	Not Detected	Not run
6/16	Sand Lake - Chain O'Lakes SP	54,000	<i>Aphanizomenon sp.</i>	<i>Pseudanabaena sp.</i>	<i>Dolichospermum sp.</i>	Not Detected	Not Detected	Not run
6/16	Salamonie Lake - Lost Bridge West SRA	66,000	<i>Dolichospermum sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
6/15	Mississinewa Lake - Mississinewa Lake	0				Not Detected	Not Detected	Not run

	Miami SRA							
6/15	Worster Lake - Potato Creek State Park	370,000	<i>Planktothrix sp.</i>	<i>Aphanizomenon sp.</i>	<i>Planktolyngbya limnetica</i>	3.93	Not Detected	Not run
6/15	Ferdinand Lake - Ferdinand State Forest	22,000	<i>Aphanizomenon sp.</i>			Not Detected	Not Detected	Not run
6/14	Lincoln Lake - Lincoln State Park	9,200	<i>Coelosphaerium sp.</i>	<i>Dolichospermum sp.</i>	<i>Chroococcus sp.</i>	Not Detected	Not Detected	Not run
6/9	Cecil M Harden Lake - Raccoon Lake SRA	200,000	<i>Pseudanabaena sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
6/9	Whitewater Lake - Whitewater Memorial SP	26,500	<i>Aphanocapsa sp.</i>	<i>Planktothrix sp.</i>	<i>Dolichospermum sp.</i>	Not Detected	Not Detected	Not run
6/9	Brookville Lake - Quakertown SRA	12,000	<i>Pseudanabaena sp.</i>	Picoplankton	<i>Aphanizomenon sp.</i>	Not Detected	Not Detected	Not run
6/9	Brookville Lake - Mounds SRA	81,000	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon sp.</i>	<i>Planktothrix sp.</i>	Not Detected	Not Detected	Not run
6/8	Hardy Lake - Hardy Lake SRA	1,000	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	Picoplankton	0.151	Not Detected	Not run
6/8	Monroe Lake - Fairfax SRA	14,000	<i>Microcystis sp.</i>	Picoplankton	<i>Merismopedia sp.</i>	Not Detected	Not Detected	Not run
6/8	Monroe Lake - Paynetown SRA	2,100	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
6/8	Starve Hollow Lake - Starve Hollow SRA	25,000	<i>Aphanizomenon flos-aquae</i>	<i>Microcystis sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
6/8	Deam Lake - Deam Lake SRA	20,000	<i>Merismopedia sp.</i>	<i>Aphanocapsa sp.</i>		Not Detected	Not Detected	Not run
6/1	Worster Lake - Potato Creek State Park	230,000	<i>Aphanizomenon sp.</i>	<i>Pseudanabaena sp.</i>	<i>Planktothrix sp.</i>	3.33	Not Detected	Not run
5/26	Cecil M Harden Lake - Raccoon Lake SRA	330,000	<i>Pseudanabaena sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
5/19	James Lake - Pokagon State Park	0				Not Detected	Not Detected	Not run
5/19	Sand Lake - Chain O'Lakes SP	1,300	<i>Aphanizomenon sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
5/19	Salamonie Lake - Lost Bridge West SRA	160	Picoplankton			Not Detected	Not Detected	Not run
5/18	Mississinewa Lake - Mississinewa Lake Miami SRA	1,400	<i>Merismopedia sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
5/18	Worster Lake - Potato Creek State Park	550,000	<i>Pseudanabaena sp.</i>	<i>Planktothrix sp.</i>	<i>Aphanocapsa sp.</i>	.405	Not Detected	Not run
5/18	Ferdinand Lake – Ferdinand State Forest	180	Picoplankton			Not Detected	Not Detected	Not run
5/17	Lake Lincoln – Lincoln State Park	1,600	<i>Microcystis sp.</i>	Picoplankton		Not Detected	Not Detected	Not run
5/12	Cecil M Harden Lake - Raccoon Lake SRA	84,000	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
5/12	Whitewater Lake - Whitewater Memorial SP	2,050	<i>Dolichospermum sp.</i>	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	Not Detected	Not Detected	Not run
5/12	Brookville Lake - Quakertown SRA	47,000	<i>Microcystis sp.</i>	<i>Microcystis sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
5/12	Brookville Lake - Mounds SRA	2,600	Picoplankton	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon sp.</i>	Not Detected	Not Detected	Not run
5/11	Monroe Lake - Fairfax SRA	2,400	Picoplankton	<i>Microcystis sp.</i>		Not Detected	Not Detected	Not run
5/11	Monroe Lake - Paynetown SRA	3,200	<i>Woronichinia sp.</i>	Picoplankton	<i>Chroococcus sp.</i>	Not Detected	Not Detected	Not run
5/11	Starve Hollow Lake - Starve Hollow SRA	2,000	<i>Microcystis sp.</i>	<i>Pseudanabaena sp.</i>	Picoplankton	Not Detected	Not Detected	Not run
5/11	Deam Lake - Deam Lake SRA	1,500	Picoplankton			Not Detected	Not Detected	Not run
5/11	Hardy Lake - Hardy Lake SRA	1,500	Picoplankton	<i>Pseudanabaena sp.</i>		Not Detected	Not Detected	Not run

¹Microcystin detection and reporting limit is 0.150 ug/l.

²Cylindrospermopsin detection and reporting limit is 0.050 ug/l. Will be run on samples that contain the toxin producing species.

³Anatoxin-a detection and reporting limit is 10 ug/l.