

**IDEM 2017 SAMPLING RESULTS**  
**Cyanobacteria Cell Counts, Identification, and Cyanotoxin Results**

Date	Location	Cells/ml	Dominant Species 1	Dominant Species 2	Dominant Species 3	<sup>1</sup> Microcystin ug/l	<sup>2</sup> Anatoxin-a ug/l	<sup>3</sup> Cylindrospermopsin ug/l
8/28	Mississinewa Lake - Miami SRA	310,000	<i>Pseudanabaena sp.</i>	<i>Merismopedia sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not detected
8/28	Worster Lake - Potato Creek State Park	1,400,000	<i>Raphidiopsis sp.</i>	<i>Planktothrix agardhii</i>	<i>Pseudanabaena sp.</i>	0.42	Not detected	0.29
8/29	Lake James - Pokagon State Park Inn	61,000	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	<i>Aphanothece sp.</i>	Not detected	Not detected	0.06
8/29	Sand Lake - Chain O'Lakes SP	150,000	<i>Aphanizomenon flos-aquae</i>	<i>Planktothrix agardhii</i>	<i>Cuspidothrix sp.</i>	Not detected	Not detected	Not detected
8/29	Salamonie Lake - Lost Bridge West SRA	460,000	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	0.20
8/22	Cecil M Harden Lake - Raccoon Lake SRA	1,300,000	<i>Pseudanabaena sp.</i>	<i>Raphidiopsis sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not detected
8/22	Brookville Lake - Mounds SRA	540,000	<i>Pseudanabaena sp.</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Planktolyngbya limnetica</i>	Not detected	0.451	Not detected
8/22	Brookville Lake - Quakertown SRA	605,000	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	<i>Raphidiopsis sp.</i>	Not detected	Not detected	Not detected
8/22	Whitewater Lake - Whitewater Memorial SP	680,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not detected
8/21	Monroe Lake - Paynetown SRA	240,000	<i>Planktolyngbya limnetica</i>	<i>Cylindrospermopsis raciborskii</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not detected
8/21	Hardy Lake - Hardy Lake SRA	520,000	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	<i>Cylindrospermopsis raciborskii</i>	Not detected	Not detected	Not detected
8/21	Starve Hollow Lake - Starve Hollow SRA	230,000	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	<i>Planktolyngbya limnetica</i>	Not detected	Not detected	Not detected
8/14	Mississinewa Lake - Miami SRA	370,000	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not detected
8/14	Worster Lake - Potato Creek State Park	1,200,000	<i>Raphidiopsis sp.</i>	<i>Planktothrix agardhii</i>	<i>Pseudanabaena sp.</i>	Not detected	Not detected	Not detected
8/15	Lake James - Pokagon State Park	64,000	<i>Raphidiopsis sp.</i>	<i>Planktothrix agardhii</i>	<i>Pseudanabaena sp.</i>	Not detected	Not detected	Not detected
8/15	Lake James - Pokagon State Park Inn	130,000	<i>Aphanothece sp.</i>	<i>Aphanocapsa sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not detected
8/15	Sand Lake - Chain O'Lakes SP	150,000	<i>Planktothrix agardhii</i>	<i>Aphanocapsa sp.</i>	<i>Cylindrospermopsis raciborskii</i>	Not detected	Not detected	Not detected
8/15	Salamonie Lake - Lost Bridge West SRA	200,000	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not detected
8/08	Cecil M Harden Lake - Raccoon Lake SRA	920,000	<i>Pseudanabaena sp.</i>	<i>Raphidiopsis sp.</i>	<i>Planktolyngbya limnetica</i>	Not detected	Not detected	Not detected
8/08	Brookville Lake - Mounds SRA	355,000	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	<i>Planktolyngbya limnetica</i>	Not detected	Not detected	Not detected
8/08	Brookville Lake - Quakertown SRA	64,000	<i>Aphanocapsa sp.</i>	<i>Pseudanabaena sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not detected
8/08	Whitewater Lake - Whitewater Memorial SP	610,000	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not detected
8/07	Monroe Lake - Fairfax SRA	46,000	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not detected
8/07	Monroe Lake - Paynetown SRA	220,000	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not detected
8/07	Starve Hollow Lake - Starve Hollow SRA	130,000	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	0.234
8/07	Deam Lake - Deam Lake SRA	5,000	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not detected
8/07	Hardy Lake - Hardy Lake SRA	480,000	<i>Planktolyngbya limnetica</i>	<i>Aphanocapsa sp.</i>	<i>Pseudanabaena sp.</i>	0.460	Not detected	Not detected
8/01	Salamonie Lake - Lost Bridge West SRA	570,000	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	<i>Dolichospermum sp.</i>	Not detected	Not detected	Not detected
8/01	Sand Lake - Chain O'Lakes SP	170,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Cuspidothrix sp.</i>	Not detected	1.160	Not detected
8/01	Mississinewa Lake - Miami SRA	320,000	<i>Merismopedia sp.</i>	<i>Aphanocapsa sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not detected

8/01	Worster Lake - Potato Creek State Park	735,000	<i>Raphidiopsis sp.</i>	<i>Pseudanabaena sp.</i>	<i>Planktothrix agardhii</i>	Not detected	Not detected	Not detected
7/25	Cecil M Harden Lake - Raccoon Lake SRA	1,800,000	<i>Raphidiopsis sp.</i>	<i>Pseudanabaena sp.</i>	<i>Merismopedia sp.</i>	0.311	0.515	Not detected
7/25	Brookville Lake - Mounds SRA	300,000	<i>Planktolyngbya limnetica</i>	<i>Pseudanabaena sp.</i>	<i>Aphanocapsa sp.</i>	0.356	0.499	Not detected
7/25	Brookville Lake - Quakertown SRA	190,000	<i>Microcystis sp.</i>	<i>Pseudanabaena sp.</i>	<i>Raphidiopsis sp.</i>	Not detected	Not detected	Not detected
7/25	Whitewater Lake - Whitewater Memorial SP	58,000	<i>Pseudanabaena sp.</i>	<i>Planktolyngbya limnetica</i>	<i>Microcystis sp.</i>	Not detected	Not detected	0.071
7/24	Hardy Lake - Hardy Lake SRA	260,000	<i>Planktolyngbya limnetica</i>	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	0.352	Not detected	Not detected
7/18	Mississinewa Lake - Miami SRA	120,000	<i>Aphanizomenon sp.</i>	<i>Merismopedia sp.</i>	<i>Pseudanabaena sp.</i>	0.53	Not detected	Not analyzed
7/18	Worster Lake - Potato Creek State Park	130,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Microcystis sp.</i>	Not detected	.753	Not analyzed
7/17	Lake James - Pokagon State Park	49,000	<i>Aphanothece sp.</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/17	Lake James - Pokagon State Park Inn	48,000	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/17	Sand Lake - Chain O'Lakes SP	330,000	<i>Aphanizomenon sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Aphanocapsa sp.</i>	Not detected	3.314	Not analyzed
7/17	Salamonie Lake - Lost Bridge West SRA	160,000	<i>Merismopedia sp.</i>	<i>Dolichospermum sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not analyzed
7/11	Cecil M Harden Lake - Raccoon Lake SRA	520,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/11	Brookville Lake - Mounds SRA	200,000	<i>Aphanizomenon sp.</i>	<i>Aphanocapsa sp.</i>	<i>Romeria sp.</i>	0.64	Not detected	Not analyzed
7/11	Brookville Lake - Quakertown SRA	120,000	<i>Aphanizomenon sp.</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/11	Whitewater Lake - Whitewater Memorial SP	150,000	<i>Pseudanabaena sp.</i>	<i>Aphanizomenon sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/10	Monroe Lake - Fairfax SRA	26,000	<i>Snowella sp.</i>	<i>Chroococcus sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not analyzed
7/10	Monroe Lake - Paynetown SRA	43,000	<i>Chroococcus sp.</i>	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not analyzed
7/10	Starve Hollow Lake - Starve Hollow SRA	77,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
7/10	Deam Lake - Deam Lake SRA	21,500	<i>Chroococcus sp.</i>	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not analyzed
7/10	Hardy Lake - Hardy Lake SRA	190,000	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	0.43	Not detected	Not analyzed
6/27	Worster Lake - Potato Creek State Park	160,000	<i>Aphanocapsa sp.</i>	<i>Dolichospermum sp.</i>	<i>Chroococcus sp.</i>	0.47	Not detected	Not analyzed
6/27	Sand Lake - Chain O'Lakes SP	400,000	<i>Aphanizomenon flos-aquae</i>	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
6/26	Brookville Lake - Mounds SRA	70,000	<i>Aphanizomenon flos-aquae</i>	<i>Dolichospermum sp.</i>	<i>Aphanizomenon sp.</i>	Not detected	Not detected	Not analyzed
6/26	Hardy Lake - Hardy Lake SRA	200,000	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	<i>Planktothrix sp.</i>	0.54	Not detected	Not analyzed
6/26	Deam Lake - Deam Lake SRA	26,000	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not analyzed
6/20	Lake James - Pokagon State Park	5,400	<i>Merismopedia sp.</i>	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed
6/20	Lake James - Pokagon State Park Inn	4,000	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>		Not detected	Not detected	Not analyzed
6/20	Sand Lake - Chain O'Lakes SP	230,000	<i>Aphanizomenon flos-aquae</i>	<i>Planktothrix sp.</i>	<i>Pseudanabaena sp.</i>	Not detected	Not detected	Not analyzed
6/20	Salamonie Lake - Lost Bridge West SRA	4,000	<i>Chroococcus sp.</i>			Not detected	Not detected	Not analyzed
6/19	Mississinewa Lake - Miami SRA	22,500	<i>Dolichospermum sp.</i>	<i>Chroococcus sp.</i>	<i>Merismopedia sp.</i>	0.49	Not detected	Not analyzed
6/19	Worster Lake - Potato Creek State Park	80,000	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	<i>Merismopedia sp.</i>	0.37	Not detected	Not analyzed
6/13	Cecil M Harden Lake - Raccoon Lake SRA	22,000	<i>Chroococcus sp.</i>	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not analyzed
6/13	Brookville Lake - Mounds SRA	140,000	<i>Planktothrix agardhii</i>	<i>Aphanizomenon flos-aquae</i>	<i>Aphanizomenon sp.</i>	Not detected	Not detected	Not analyzed
6/13	Brookville Lake - Quakertown SRA	27,000	<i>Aphanizomenon flos-aquae</i>	<i>Dolichospermum sp.</i>	<i>Planktothrix agardhii</i>	Not detected	Not detected	Not analyzed
6/13	Whitewater Lake - Whitewater Memorial SP	64,000	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	<i>Aphanizomenon sp.</i>	Not detected	Not detected	Not analyzed
6/12	Monroe Lake - Fairfax SRA	15,500	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	<i>Chroococcus sp.</i>	Not detected	Not detected	Not analyzed

6/12	Monroe Lake - Paynetown SRA	13,000	<i>Chroococcus sp.</i>	<i>Merismopedia sp.</i>		Not detected	Not detected	Not analyzed
6/12	Starve Hollow Lake - Starve Hollow SRA	57,000	<i>Woronichinia sp.</i>	<i>Aphanocapsa sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not analyzed
6/12	Deam Lake - Deam Lake SRA	130,000	<i>Merismopedia sp.</i>	<i>Aphanocapsa sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not analyzed
6/12	Hardy Lake - Hardy Lake SRA	81,000	<i>Aphanocapsa sp.</i>	<i>Chroococcus sp.</i>	<i>Woronichinia sp.</i>	Not detected	Not detected	Not analyzed
6/5	Worster Lake - Potato Creek State Park	46,500	<i>Aphanocapsa sp.</i>	<i>Planktothrix agardhii</i>	<i>Aphanizomenon flos-aquae</i>	0.402	Not detected	Not analyzed
5/30	Brookville Lake - Mounds SRA	68,000	<i>Aphanizomenon flos-aquae</i>	<i>Planktothrix agardhii</i>		Not detected	Not detected	Not analyzed
5/30	Whitewater Lake - Whitewater Memorial SP	31,500	<i>Pseudanabaena sp.</i>	<i>Chroococcus sp.</i>	<i>Aphanocapsa sp.</i>	Not detected	Not detected	Not analyzed
5/23	Lake James - Pokagon State Park	1725	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>		Not detected	Not detected	Not analyzed
5/23	Lake James - Pokagon State Park Inn	2,600	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>		Not detected	Not detected	Not analyzed
5/23	Sand Lake - Chain O'Lakes SP	2,700	<i>Chroococcus sp.</i>			Not detected	Not detected	Not analyzed
5/23	Salamonie Lake - Lost Bridge West SRA	2,700	<i>Chroococcus sp.</i>			Not detected	Not detected	Not analyzed
5/22	Mississinewa Lake - Miami SRA	11,000	<i>Aphanizomenon sp.</i>	<i>Microcystis sp.</i>	<i>Merismopedia sp.</i>	Not detected	Not detected	Not analyzed
5/22	Worster Lake - Potato Creek State Park	90,000	<i>Planktothrix sp.</i>	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon sp.</i>	1.26	Not detected	Not analyzed
5/16	Cecil M Harden Lake - Raccoon Lake SRA	24,000	<i>Pseudanabaena sp.</i>	<i>Chroococcus sp.</i>	<i>Aphanizomenon sp.</i>	Not detected	Not detected	Not analyzed
5/16	Brookville Lake - Mounds SRA	170,000	<i>Planktothrix agardhii</i>	<i>Aphanizomenon flos-aquae</i>		0.6	Not detected	Not analyzed
5/16	Brookville Lake - Quakertown SRA	38,000	<i>Aphanizomenon sp.</i>	<i>Pseudanabaena sp.</i>	<i>Microcystis sp.</i>	Not detected	Not detected	Not analyzed
5/16	Whitewater Lake - Whitewater Memorial SP	97,000	<i>Aphanizomenon sp.</i>	<i>Chroococcus sp.</i>	<i>Dolichospermum sp.</i>	Not detected	0.19	Not analyzed
5/15	Monroe Lake - Fairfax SRA	0				Not detected	Not detected	Not analyzed
5/15	Monroe Lake - Paynetown SRA	580	<i>Snowella sp.</i>			Not detected	Not detected	Not analyzed
5/15	Starve Hollow Lake - Starve Hollow SRA	580	<i>Microcystis sp.</i>	<i>Chroococcus sp.</i>		Not detected	Not detected	Not analyzed
5/15	Deam Lake - Deam Lake SRA	0				Not detected	Not detected	Not analyzed
5/15	Hardy Lake - Hardy Lake SRA	20,000	<i>Microcystis sp.</i>	<i>Aphanocapsa sp.</i>	<i>Aphanizomenon flos-aquae</i>	Not detected	Not detected	Not analyzed

<sup>1</sup>Microcystin detection and reporting limit is 0.30 ug/l.

<sup>2</sup>Anatoxin-a detection and reporting limit is 0.40 ug/l.

<sup>3</sup>Cylindrospermopsin detection and reporting limit is 0.05 ug/l. Will be run on samples that contain the toxin producing species, generally later in the summer.