

IDEM 2025 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	² Anatoxin- a ug/l	³ Saxitoxin ug/l	⁴ Cylindro- spermopsin ug/l
8/25	Chain O'Lakes SP – Sand Lake Beach	760,000	Raphidiopsis sp.	Planktolyngbya limnetica	Planktothrix sp.	ND	ND	ND	ND
8/25	Ferdinand State Forest – Ferdinand Lake Beach	120,000	Planktolyngbya limnetica	Pseudanabaena sp.	Aphanocapsa sp.	ND	ND	0.055	ND
8/25	Ouabache SP – Kunkel Lake Beach	190,000	Aphanocapsa sp.	Raphidiopsis sp.	Aphanizomenon sp.	ND	ND	ND	ND
8/25	Patoka Lake – Newton Stewart SRA Beach	300,000	Raphidiopsis sp.	Planktolyngbya limnetica	Picoplankton	ND	ND	ND	ND
8/25	Summit Lake SP – Summit Lake Beach	73,000	Picoplankton	Merismopedia sp.	Chroococcus sp.	ND	ND	ND	ND
8/26	Mississinewa Lake – Miami SRA Beach	200,000	Pseudanabaena sp.	Microcystis sp.	Dolichospermum sp.	13	ND	ND	ND
8/26	Potato Creek SP – Worster Lake Beach	985,000	Raphidiopsis sp.	Planktolyngbya limnetica	Pseudanabaena sp.	0.34	ND	ND	ND
8/26	Salamonie Lake – Lost Bridge West SRA Beach	860,000	Merismopedia sp.	Planktolyngbya limnetica	Raphidiopsis sp.	ND	ND	ND	ND
8/18	Cagles Mill Lake – Lieber SRA Beach	660,000	Raphidiopsis sp.	Planktolyngbya limnetica	Pseudanabaena sp.	ND	ND	ND	ND
8/18	Cecil M. Harden Lake – Raccoon Lake SRA Beach	1,900,000	Pseudanabaena sp.	Raphidiopsis sp.	Planktolyngbya limnetica	ND	ND	ND	ND
8/18	Mississinewa Lake – Miami SRA Beach	280,000	Microcystis sp.	Pseudanabaena sp.	Dolichospermum sp.	18	ND	0.085	ND
8/18	Monroe Lake – Fairfax SRA Beach	405,000	Raphidiopsis sp.	Planktolyngbya limnetica	Limnothrix sp.	ND	ND	ND	ND
8/18	Monroe Lake – Paynetown SRA Beach	710,000	Raphidiopsis sp.	Planktolyngbya limnetica	Pseudanabaena sp.	ND	ND	ND	ND
8/18	Starve Hollow SRA – Starve Hollow Lake Beach	270,000	Raphidiopsis sp.	Planktolyngbya limnetica	Aphanizomenon flos-aquae	ND	ND	0.11	ND
8/19	Brookville Lake – Mounds SRA Beach	460,000	Raphidiopsis sp.	Planktolyngbya limnetica	Picoplankton	ND	ND	ND	ND
8/19	Brookville Lake – Quakertown SRA Beach	440,000	Pseudanabaena sp.	Merismopedia sp.	Raphidiopsis sp.	ND	ND	ND	ND
8/19	Hardy Lake – Hardy Lake SRA Beach	290,000	Raphidiopsis sp.	Planktolyngbya limnetica	Picoplankton	ND	ND	ND	ND
8/19	Whitewater Memorial SP – Whitewater Lake Beach	510,000	Planktolyngbya limnetica	Raphidiopsis sp.	Pseudanabaena sp.	ND	ND	ND	ND
8/11	Chain O'Lakes SP – Sand Lake Beach	360,000	Planktolyngbya limnetica	Raphidiopsis sp.	Aphanocapsa sp.	ND	ND	ND	ND
8/11	Ferdinand State Forest – Ferdinand Lake Beach	100,000	Planktolyngbya limnetica	Pseudanabaena sp.	Aphanothece sp.	ND	ND	0.063	ND

Date	Location	Cells/ml	Dominant Species 1	Dominant Species 2	Dominant Species 3	¹ Microcystin ug/l	² Anatoxin-a ug/l	³ Saxitoxin ug/l	⁴ Cylindrospermopsin ug/l
8/11	Ouabache SP – Kunkel Lake Beach	1,000,000	Aphanocapsa sp.	Raphidiopsis sp.	Cuspidothrix sp.	ND	ND	ND	ND
8/11	Patoka Lake – Newton Stewart SRA Beach	150,000	Planktolyngbya limnetica	Picoplankton	Raphidiopsis sp.	ND	ND	ND	ND
8/11	Pokagon SP – Main Beach	53,000	Picoplankton	Aphanothece sp.	Aphanocapsa sp.	ND	ND	ND	ND
8/11	Pokagon SP – Potawatomi Inn Beach	57,000	Picoplankton	Aphanothece sp.	Merismopedia sp.	ND	ND	ND	ND
8/12	Mississinewa Lake – Miami SRA Beach	390,000	Pseudanabaena sp.	Microcystis sp.	Dolichospermum sp.	33	ND	ND	ND
8/12	Potato Creek SP – Worster Lake Beach	1,100,000	Planktolyngbya limnetica	Raphidiopsis sp.	Planktothrix sp.	ND	ND	ND	ND
8/12	Salamonie Lake – Lost Bridge West SRA Beach	420,000	Pseudanabaena sp.	Aphanocapsa sp.	Merismopedia sp.	0.74	ND	ND	ND
8/12	Summit Lake SP – Summit Lake Beach	98,000	Picoplankton	Aphanocapsa sp.	Merismopedia sp.	ND	ND	ND	ND
8/4	Cagles Mill Lake – Lieber SRA Beach	330,000	Raphidiopsis sp.	Pseudanabaena sp.	Planktolyngbya limnetica	ND	ND	ND	ND
8/4	Cecil M. Harden Lake – Raccoon Lake SRA Beach	1,200,000	Pseudanabaena sp.	Raphidiopsis sp.	Planktolyngbya limnetica	ND	ND	ND	ND
8/4	Mississinewa Lake – Miami SRA Beach	220,000	Microcystis sp.	Pseudanabaena sp.	Aphanocapsa sp.	6.5	ND	ND	ND
8/4	Monroe Lake – Fairfax SRA Beach	810,000	Planktolyngbya limnetica	Raphidiopsis sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
8/4	Monroe Lake – Paynetown SRA Beach	500,000	Planktolyngbya limnetica	Raphidiopsis sp.	Aphanizomenon sp.	ND	ND	ND	ND
8/4	Starve Hollow SRA – Starve Hollow Lake Beach	89,000	Aphanocapsa sp.	Planktolyngbya limnetica	Pseudanabaena sp.	ND	ND	0.28	ND
8/5	Brookville Lake – Mounds SRA Beach	405,000	Raphidiopsis sp.	Picoplankton	Planktolyngbya limnetica	0.31	ND	ND	ND
8/5	Brookville Lake – Quakertown SRA Beach	450,000	Pseudanabaena sp.	Raphidiopsis sp.	Merismopedia sp.	ND	ND	ND	ND
8/5	Deam Lake SRA – Deam Lake Beach	30,000	Picoplankton	Chroococcus sp.	Planktolyngbya limnetica	ND	ND	ND	ND
8/5	Hardy Lake – Hardy Lake SRA Beach	570,000	Raphidiopsis sp.	Planktolyngbya limnetica	Pseudanabaena sp.	ND	ND	ND	ND
8/5	Whitewater Memorial SP – Whitewater Lake Beach	1,800,000	Planktolyngbya limnetica	Pseudanabaena sp.	Raphidiopsis sp.	ND	ND	ND	ND
7/28	Chain O'Lakes SP – Sand Lake Beach	80,000	Aphanocapsa sp.	Picoplankton	Raphidiopsis sp.	ND	ND	ND	ND
7/28	Mississinewa Lake – Miami SRA Beach	230,000	Microcystis sp.	Pseudanabaena sp.	Aphanocapsa sp.	8.85	ND	0.068	ND
7/28	Potato Creek SP – Worster Lake Beach	1,050,000	Raphidiopsis sp.	Planktolyngbya limnetica	Aphanocapsa sp.	ND	ND	ND	ND
7/28	Salamonie Lake – Lost Bridge West SRA Beach	89,000	Microcystis sp.	Merismopedia sp.	Aphanocapsa sp.	1.23	ND	ND	ND

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7/29	Ferdinand State Forest – Ferdinand Lake Beach	110,000	Aphanizomenon sp.	Aphanizomenon flos-aquae	Pseudanabaena sp.	ND	ND	0.059	ND
7/28	Chain O'Lakes SP – Sand Lake Beach	80,000	Aphanocapsa sp.	Picoplankton	Raphidiopsis sp.	ND	ND	ND	ND
7/28	Mississinewa Lake – Miami SRA Beach	230,000	Microcystis sp.	Pseudanabaena sp.	Aphanocapsa sp.		ND	0.068	ND
7/28	Potato Creek SP – Worster Lake Beach	1,050,000	Raphidiopsis sp.	Planktolyngbya limnetica	Aphanocapsa sp.	ND	ND	ND	ND
7/28	Salamonie Lake – Lost Bridge West SRA Beach	89,000	Microcystis sp.	Merismopedia sp.	Aphanocapsa sp.	1.23	ND	ND	ND
7/29	Ferdinand State Forest – Ferdinand Lake Beach	110,000	Aphanizomenon sp.	Aphanizomenon flos-aquae	Pseudanabaena sp.	ND	ND	0.059	ND
7/21	Cagles Mill Lake – Lieber SRA Beach	680,000	Raphidiopsis sp.	Pseudanabaena sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
7/21	Cecil M. Harden Lake – Raccoon Lake SRA Beach	880,000	Pseudanabaena sp.	Raphidiopsis sp.	Planktolyngbya limnetica	ND	ND	ND	ND
7/22	Brookville Lake – Mounds SRA Beach	410,000	Picoplankton	Pseudanabaena sp.	Raphidiopsis sp.	0.32	ND	ND	ND
7/22	Brookville Lake – Quakertown SRA Beach	205,000	Pseudanabaena sp.	Raphidiopsis sp.	Picoplankton	ND	ND	ND	ND
7/22	Hardy Lake – Hardy Lake SRA Beach	1,500,000	Planktolyngbya limnetica	Raphidiopsis sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
7/14	Chain O'Lakes SP – Sand Lake Beach	150,000	Aphanocapsa sp.	Merismopedia sp.	Picoplankton	ND	ND	0.064	ND
7/14	Ferdinand State Forest – Ferdinand Lake Beach	380,000	Planktolyngbya limnetica	Coelosphaerium sp.	Pseudanabaena sp.	ND	ND	0.062	ND
7/14	Ouabache SP – Kunkel Lake Beach	71,000	Aphanocapsa sp.	Dolichospermum sp.	Chroococcus sp.	ND	ND	0.175	ND
7/14	Patoka Lake – Newton Stewart SRA Beach	51,000	Picoplankton	Chroococcus sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
7/14	Pokagon SP – Main Beach	75,000	Aphanocapsa sp.	Picoplankton	Aphanothece sp.	ND	ND	ND	ND
7/14	Pokagon SP – Potawatomi Inn Beach	66,000	Picoplankton	Microcystis sp.	Cyanodictyon sp.	ND	ND	ND	ND
7/15	Mississinewa Lake – Miami SRA Beach	270,000	Pseudanabaena sp.	Microcystis sp.	Aphanocapsa sp.	3.78	ND	ND	ND
7/15	Potato Creek SP – Worster Lake Beach	540,000	Planktolyngbya limnetica	Raphidiopsis sp.	Aphanizomenon flos-aquae	ND	ND	ND	ND
7/15	Salamonie Lake – Lost Bridge West SRA Beach	210,000	Dolichospermum sp.	Microcystis sp.	Anabaena sp.	2.57	ND	ND	ND
7/15	Summit Lake SP – Summit Lake Beach	86,000	Picoplankton	Aphanothece sp.		ND	ND	ND	ND

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7/7	Cagles Mill Lake – Lieber SRA Beach	270,000	Pseudanabaena sp.	Aphanizomenon flos-aquae	Aphanizomenon sp.	ND	ND	ND	ND
7/7	Cecil M. Harden Lake – Raccoon Lake SRA Beach	260,000	Pseudanabaena sp.	Aphanocapsa sp.	Raphidiopsis sp.	ND	ND	ND	ND
7/7	Monroe Lake – Fairfax SRA Beach	46,000	Picoplankton	Planktolyngbya limnetica	Aphanocapsa sp.	ND	ND	ND	ND
7/7	Monroe Lake – Paynetown SRA Beach	47,000	Picoplankton	Aphanizomenon flos-aquae	Pseudanabaena sp.	ND	ND	ND	ND
7/7	Starve Hollow SRA – Starve Hollow Lake Beach	36,000	Dolichospermum sp.	Aphanizomenon sp.	Aphanizomenon flos-aquae	ND	ND	0.083	ND
7/8	Brookville Lake – Mounds SRA Beach	320,000	Aphanizomenon flos-aquae	Picoplankton	Pseudanabaena sp.	ND	ND	ND	ND
7/8	Brookville Lake – Quakertown SRA Beach	180,000	Pseudanabaena sp.	Picoplankton	Raphidiopsis sp.	ND	ND	ND	ND
7/8	Deam Lake SRA – Deam Lake Beach	12,000	Picoplankton	Chroococcus sp.	Merismopedia sp.	ND	ND	ND	ND
7/8	Hardy Lake – Hardy Lake SRA Beach	420,000	Planktolyngbya limnetica	Pseudanabaena sp.	Aphanizomenon sp.	ND	ND	ND	ND
7/8	Whitewater Memorial SP – Whitewater Lake Beach	46,000	Aphanocapsa sp.	Pseudanabaena sp.	Planktolyngbya limnetica	0.37	ND	ND	ND
6/23	Cagles Mill Lake – Lieber SRA Beach	465,000	Pseudanabaena sp.	Aphanizomenon flos-aquae	Aphanocapsa sp.	ND	ND	ND	NR
6/23	Cecil M. Harden Lake – Raccoon Lake SRA Beach	240,000	Pseudanabaena sp.	Picoplankton	Aphanocapsa sp.	ND	ND	ND	NR
6/23	Potato Creek SP – Worster Lake Beach	90,000	Planktothrix isothrix	Dolichospermum sp.	Aphanocapsa sp.	ND	ND	ND	NR
6/24	Brookville Lake – Mounds SRA Beach	370,000	Pseudanabaena sp.	Aphanizomenon sp.	Picoplankton	ND	ND	ND	NR
6/24	Whitewater Memorial SP – Whitewater Lake Beach	69,000	Aphanothece sp.	Raphidiopsis sp.	Pseudanabaena sp.	0.36	ND	ND	NR
6/16	Chain O'Lakes SP – Sand Lake Beach	76,000	Aphanizomenon flos-aquae	Dolichospermum sp.	Oscillatoria sp.	0.44	ND	ND	NR
6/16	Ferdinand State Forest – Ferdinand Lake Beach	72,000	Aphanocapsa sp.	Coelosphaerium sp.	Chroococcus sp.	ND	ND	ND	NR
6/16	Lincoln SP – Lake Lincoln Beach	2,700	Picoplankton	Chroococcus sp.		ND	ND	ND	NR
6/16	Ouabache SP – Kunkel Lake Beach	13,000	Aphanothece sp.	Pseudanabaena sp.	Chroococcus sp.	ND	ND	ND	NR

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6/16	Patoka Lake – Newton Stewart SRA Beach	75,000	Picoplankton	Raphidiopsis sp.	Merismopedia sp.	ND	ND	ND	NR
6/16	Pokagon SP – Main Beach	29,000	Picoplankton	Aphanothece sp.	Chroococcus sp.	ND	ND	ND	NR
6/16	Pokagon SP – Potawatomi Inn Beach	17,000	Picoplankton	Chroococcus sp.		ND	ND	ND	NR
6/17	Mississinewa Lake – Miami SRA Beach	22,000	Dolichospermum sp.	Picoplankton		ND	ND	ND	NR
6/17	Potato Creek SP – Worster Lake Beach	130,000	Merismopedia sp.	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	NR
6/17	Salamonie Lake – Lost Bridge West SRA Beach	3,900	Picoplankton	Chroococcus sp.	Romeria sp.	ND	ND	ND	NR
6/17	Summit Lake SP – Summit Lake Beach	6,900	Picoplankton	Aphanizomenon sp.	Chroococcus sp.	ND	ND	ND	NR
6/10	Brookville Lake – Mounds SRA Beach	170,000	Aphanizomenon flos- aquae	Pseudanabaena sp.	Aphanizomenon sp.	ND	ND	ND	NR
6/10	Brookville Lake – Quakertown SRA Beach	14,000	Raphidiopsis sp.	Aphanocapsa sp.	Planktolynghya limnetica	ND	ND	ND	NR
6/10	Deam Lake SRA – Deam Lake Beach	28,000	Aphanocapsa sp.	Picoplankton	Aphanothece sp.	ND	ND	ND	NR
6/10	Hardy Lake – Hardy Lake SRA Beach	65,000	Aphanocapsa sp.	Aphanizomenon flos- aquae	Aphanizomenon sp.	ND	ND	ND	NR
6/10	Whitewater Memorial SP – Whitewater Lake Beach	980,000	Pseudanabaena sp.	Planktothrix isothrix	Aphanizomenon sp.	0.352	ND	ND	NR
6/9	Cagles Mill Lake – Lieber SRA Beach	620,000	Pseudanabaena sp.	Aphanocapsa sp.	Aphanizomenon flos- aquae	ND	ND	ND	NR
6/9	Cecil M. Harden Lake – Raccoon Lake SRA Beach	910,000	Pseudanabaena sp.	Raphidiopsis sp.	Aphanizomenon flos- aquae	ND	ND	ND	NR
6/9	Monroe Lake – Fairfax SRA Beach	14,000	Merismopedia sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
6/9	Monroe Lake – Paynetown SRA Beach	11,000	Merismopedia sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
6/9	Starve Hollow SRA – Starve Hollow Lake Beach	3,100	Merismopedia sp.	Pseudanabaena sp.	Chroococcus sp.	ND	ND	ND	NR
5/27	Brookville Lake – Quakertown SRA Beach	69,000	Pseudanabaena sp.	Merismopedia sp.	Picoplankton	ND	ND	ND	NR
5/27	Cecil M. Harden Lake – Raccoon Lake SRA Beach	340,000	Pseudanabaena sp.	Raphidiopsis sp.	Aphanizomenon sp.	ND	ND	ND	NR
5/27	Ouabache SP – Kunkel Lake Beach	4,900	Aphanocapsa sp.	Chroococcus sp.	Pseudanabaena sp.	ND	ND	ND	NR
5/27	Whitewater Memorial SP – Whitewater Lake Beach	760,000	Pseudanabaena sp.	Planktothrix isothrix	Aphanocapsa sp.	0.437	ND	ND	NR

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5/19	Chain O'Lakes SP – Sand Lake Beach	6,300	Chroococcus sp.	Pseudanabaena sp.	Merismopedia sp.	ND	ND	ND	NR
5/19	Ferdinand State Forest – Ferdinand Lake Beach	48,000	Cyanodictyon sp.	Aphanocapsa sp.	Aphanothece sp.	ND	ND	ND	NR
5/19	Lincoln SP – Lake Lincoln Beach	810	Picoplankton			ND	ND	ND	NR
5/19	Ouabache SP – Kunkel Lake Beach	1,200,000	Aphanocapsa sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
5/19	Patoka Lake – Newton Stewart SRA Beach	46,000	Picoplankton	Aphanocapsa sp.		ND	ND	ND	NR
5/19	Pokagon SP – Main Beach	4,100	Picoplankton	Chroococcus sp.		ND	ND	ND	NR
5/19	Pokagon SP – Potawatomi Inn Beach	11,000	Picoplankton	Anabaena sp.	Chroococcus sp.	ND	ND	ND	NR
5/20	Mississinewa Lake – Miami SRA Beach	2,200	Chroococcus sp.	Merismopedia sp.	Picoplankton	ND	ND	ND	NR
5/20	Potato Creek SP – Worster Lake Beach	57,000	Aphanocapsa sp.	Planktothrix agardhii	Planktolyngbya limnetica	0.355	ND	ND	NR
5/20	Salamonie Lake – Lost Bridge West SRA Beach	9,100	Pseudanabaena sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
5/20	Summit Lake SP – Summit Lake Beach	0	No Cyanos			ND	ND	ND	NR
5/12	Cagles Mill Lake – Lieber SRA Beach	31,000	Aphanothece sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
5/12	Cecil M. Harden Lake – Raccoon Lake SRA Beach	110,000	Pseudanabaena sp.	Aphanizomenon sp.	Raphidiopsis sp.	ND	ND	ND	NR
5/12	Monroe Lake – Fairfax SRA Beach	3,300	Picoplankton	Romeria sp.	Aphanizomenon sp.	ND	ND	ND	NR
5/12	Monroe Lake – Paynetown SRA Beach	1,000	Picoplankton			ND	ND	ND	NR
5/12	Starve Hollow SRA – Starve Hollow Lake Beach	3,700	Merismopedia sp.	Picoplankton	Chroococcus sp.	ND	ND	ND	NR
5/13	Brookville Lake – Mounds SRA Beach	7,000	Picoplankton			ND	ND	ND	NR
5/13	Brookville Lake – Quakertown SRA Beach	290,000	Pseudanabaena sp.	Planktothrix isothrix	Aphanizomenon sp.	ND	ND	ND	NR
5/13	Deam Lake SRA – Deam Lake Beach	4,400	Aphanothece sp.	Picoplankton		ND	ND	ND	NR
5/13	Hardy Lake – Hardy Lake SRA Beach	31,000	Aphanizomenon sp.	Picoplankton	Pseudanabaena sp.	ND	ND	ND	NR
5/13	Whitewater Memorial SP – Whitewater Lake Beach	1,100,000	Pseudanabaena sp.	Planktothrix isothrix	Aphanizomenon sp.	ND	ND	ND	NR

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

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

³Saxitoxin reporting limit is 0.05 ug/l.

⁴Cylindrospermopsin detection and reporting limit is 0.10 ug/l. Will be run on samples that contain the toxin producing species, generally starting in July.

NR - Not Run

ND - Not Detected