

Harmful Algae Report

All data between 6/1/2008 and 6/18/2008

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Assawoman Bay							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	6/10/2008	9:08	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.45
	6/10/2008	9:08	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/10/2008	9:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/10/2008	9:08	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	6/11/2008	10:45	Net	<i>Heterocapsa rotundata</i> (B)		Present	
	6/11/2008	10:45	Net	<i>Rhizosolenia spp.</i> (T)		Present	
	6/11/2008	10:45	Surfc		No HABs found		
BR20: Broadkill River at Milton tidal pond							
	6/11/2008	11:30	Surfc	<i>Anabaena spp.</i> (T)		Common	0.19
	6/11/2008	11:30	Surfc	<i>Aphanizomenon spp.</i> (T)		Many	2.50
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	6/11/2008	13:00	Surfc	<i>Anabaena spp.</i> (T)		Common	0.19
	6/11/2008	13:00	Surfc	<i>Cylindrospermopsis</i> (T)		Common	0.25
<u>Prime Hook Creek</u>							
BR02: Prime Hook NWR Petersfield Ditch water control structure, 50m N of Rt 16.							
	6/11/2008	12:15	Surfc		No HABs found		
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	6/11/2008	12:35	Surfc	(Unknown) (B*)	10 um sph Lt brn flag	Very Abundant	100.00
	6/11/2008	12:35	Surfc	(Unknown) (B*)	<10 um oval clr flag	Very Abundant	250.00
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	6/13/2008	8:22	Surfc	<i>Chaetoceros spp.</i> (T)		Present	
	6/13/2008	8:22	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/13/2008	8:22	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/13/2008	8:22	Surfc	<i>Various centric spp.</i> (B*)		Abundant	11.00
	6/18/2008	9:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
BR40: Canary Creek at Pilottown Rd							
	6/11/2008	9:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/11/2008	9:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
Indian River							
IR12: Broken marshes, 1/4 mile SE of Quillens Point - 300 Bayfront Drive							
	6/16/2008	16:30	Surfc		No HABs found		

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MC/L - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

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Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	6/9/2008	8:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/9/2008	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/9/2008	8:25	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/9/2008	8:25	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/9/2008	8:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.31
	6/9/2008	8:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/9/2008	8:25	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.10
	6/9/2008	8:25	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Many	2.48
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	6/10/2008	8:18	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.34
	6/10/2008	8:18	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/10/2008	8:18	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/10/2008	8:18	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.22
<u>Indian River</u>							
IR04: Warwick Cove							
	6/10/2008	9:37	Surfc		No HABs found		
IR07: Holt's Landing State Park							
	6/9/2008	9:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/9/2008	9:20	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	6/9/2008	6:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR20: Bay Colony							
	6/9/2008	8:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/9/2008	8:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.21
IR21: Entrance to Boat House Pond, Indian River Bay							
	6/9/2008	6:45	Surfc		No HABs found		
	6/9/2008	6:45	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	6/9/2008	6:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	6/5/2008	8:23	Net	<i>Ceratium sp. (T)</i>		Present	
	6/5/2008	8:23	Net	<i>Dinophysis acuminata (T)</i>		Present	
	6/5/2008	8:23	Net	<i>Ditylum spp. (T)</i>		Present	
	6/5/2008	8:23	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/5/2008	8:23	Net	<i>Prorocentrum micans (B)</i>		Present	
	6/5/2008	8:23	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	6/5/2008	8:23	Surfc		No HABs found		
	6/16/2008	8:51	Net	<i>Ceratium sp. (T)</i>		Present	
	6/16/2008	8:51	Net	<i>Chaetoceros spp. (T)</i>		Present	
	6/16/2008	8:51	Net	<i>Ditylum spp. (T)</i>		Present	

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Indian River							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	6/16/2008	8:51	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/16/2008	8:51	Net	<i>Prorocentrum micans (B)</i>		Present	
	6/16/2008	8:51	Net	<i>Pseudo-nitzschia spp. (T)</i>		Present	
	6/16/2008	8:51	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	6/16/2008	8:51	Net	<i>Scrippsiella sp. (B)</i>		Present	
	6/16/2008	8:51	Surfc	<i>Prorocentrum micans (B)</i>		Present	
<u>Vines Creek</u>							
IR38: Vines Lane							
	6/3/2008	8:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.50
	6/3/2008	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/10/2008	7:30	Net	<i>Akashiwo sanguineum (B)</i>		Present	
	6/10/2008	7:30	Net	<i>Gyrodinium instriatum (B)</i>		Present	
	6/10/2008	7:30	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/10/2008	7:30	Net	<i>Prorocentrum minimum (T)</i>		Present	
	6/10/2008	7:30	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/10/2008	7:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.00
	6/10/2008	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/10/2008	7:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/17/2008	7:15	Net	<i>Gyrodinium instriatum (B)</i>		Present	
	6/17/2008	7:15	Net	<i>Prorocentrum gracile (B)</i>		Present	
	6/17/2008	7:15	Net	<i>Prorocentrum minimum (T)</i>		Present	
	6/17/2008	7:15	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/17/2008	7:15	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/17/2008	7:15	Surfc	<i>Prorocentrum gracile (B)</i>		Common	0.14
	6/17/2008	7:15	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/10/2008	10:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.21
	6/10/2008	10:35	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/10/2008	10:35	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.13
	6/10/2008	10:35	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/10/2008	10:35	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/10/2008	10:35	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
IR59: White Creek - west prong near Food Lion							
	6/9/2008	9:06	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.24
	6/9/2008	9:06	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/9/2008	9:06	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Common	0.20
IR60A: Ocean View; E Branch of White Creek							
	6/9/2008	8:56	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/9/2008	8:56	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/9/2008	8:56	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	

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Little Assawoman Bay							
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	6/9/2008	8:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/9/2008	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/9/2008	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/9/2008	8:35	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/9/2008	8:35	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.10
LA09: Dirickson Creek at Road 381 bridge.							
	6/9/2008	9:05	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/9/2008	9:05	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	7.50
	6/9/2008	9:05	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
Fish Kill	6/16/2008	13:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/16/2008	13:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.85
	6/16/2008	13:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	4.40
	6/16/2008	13:30	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.10
	6/16/2008	13:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/16/2008	13:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/16/2008	13:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
Fish Kill	6/17/2008	8:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/17/2008	8:20	Surfc	<i>Gyrodinium instriatum (B)</i>		Abundant	11.50
	6/17/2008	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/17/2008	8:20	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	1.64
	6/17/2008	8:20	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/17/2008	8:20	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.10
	6/17/2008	8:20	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	6/10/2008	8:50	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/10/2008	8:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Jefferson Creek</u>							
SB01C: Anchorage Canal Basin at Rte 1.							
	6/10/2008	8:20	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/10/2008	8:20	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.10
SB07: Layton Canal, South Bethany							
	6/10/2008	7:25	Surfc		No HABS found		
SB10W: Russell Canal west dead end							
	6/10/2008	8:36	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/10/2008	8:36	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/10/2008	8:36	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/10/2008	8:36	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							

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Little Assawoman Bay							
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	6/16/2008	8:28	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/16/2008	8:28	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/16/2008	8:28	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/16/2008	8:28	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	6/16/2008	8:18	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	54.00
	6/16/2008	8:18	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/16/2008	8:18	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/16/2008	8:18	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.73
	6/16/2008	8:18	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/16/2008	8:18	Surfc	<i>Heterosigma akashiwo. (T)</i>		Very Abundant	578.00
	6/16/2008	8:18	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/16/2008	8:18	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/16/2008	8:18	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
	6/17/2008	8:55	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	11.00
	6/17/2008	8:55	Surfc	<i>Cylindrospermopsis (T)</i>		Common	0.13
	6/17/2008	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.16
	6/17/2008	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/17/2008	8:55	Surfc	<i>Heterosigma akashiwo. (T)</i>		Very Abundant	663.00
	6/17/2008	8:55	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.15
	6/17/2008	8:55	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
Rehoboth Bay							
ML: Massey's Landing							
	6/9/2008	11:20	Surfc		No HABS found		
RB07: West Bay Park							
	6/11/2008	10:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/11/2008	10:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	6/11/2008	8:12	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/11/2008	8:12	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	6/9/2008	11:43	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB06: Guinea Creek (Winding Creek Village)							
	6/9/2008	12:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/9/2008	12:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/9/2008	12:20	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.14
	6/9/2008	12:20	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/9/2008	12:20	Surfc	<i>Navicula (small) (B*)</i>		Abundant	11.00

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Rehoboth Bay							
<u>Guinea Creek</u>							
RB06A: Guinea Creek @ Rd 298 Bridge							
	6/9/2008	12:05	Surfc		No HABs found		
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	6/2/2008	8:30	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/2/2008	8:30	Net	<i>Prorocentrum micans (B)</i>		Present	
	6/2/2008	8:30	Net	<i>Scrippsiella sp. (B)</i>		Present	
	6/2/2008	8:30	Surfc		No HABs found		
	6/9/2008	8:35	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	6/9/2008	8:35	Net	<i>Prorocentrum micans (B)</i>		Present	
	6/9/2008	8:35	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	6/9/2008	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/16/2008	8:30	Net	<i>Ceratium sp. (T)</i>		Present	
	6/16/2008	8:30	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	6/16/2008	8:30	Surfc		No HABs found		
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/9/2008	12:40	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.11
	6/9/2008	12:40	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.38
	6/9/2008	12:40	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/9/2008	12:40	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/9/2008	12:40	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Wagamon's Pond							
BR44: Wagamon's Pond at 202 Lake Drive, Milton							
	6/12/2008	7:00	Surfc	<i>Anabaena spp. (T)</i>		Common	
	6/12/2008	7:00	Surfc	<i>Aphanizomenon spp. (T)</i>		Common	
	6/12/2008	7:00	Surfc	<i>Cylindrospermopsis (T)</i>		Common	
	6/12/2008	7:00	Surfc	<i>Gonyostomum depressa (B)</i>		Present	
	6/12/2008	7:00	Surfc	<i>Oscillatoria spp. (B)</i>		Abundant	
White's Pond							
WHT: Lewes							
	Fish Kill	6/17/2008	15:10	Surfc	<i>Chlamydomonas spp. (B*)</i>	Very Abundant	462.00

Name subsripts: (B) - nontoxic bloom former; (B*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.

MC/L - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

University of Delaware Citizen Monitoring Program