

# Harmful Algae Report

All data between 6/15/2010 and 6/30/2010

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Assawoman Bay</b>							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	6/22/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/22/2010	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/22/2010	8:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	6/16/2010	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	6/16/2010	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	6/16/2010	9:00	Net	<i>Prorocentrum</i> sp. (T)			
	6/16/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/16/2010	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.125
	6/16/2010	9:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/23/2010	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	6/23/2010	9:00	Net	<i>Dinophysis norvegica</i> (T)			
	6/23/2010	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	6/23/2010	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	6/23/2010	9:00	Net	<i>Prorocentrum micans</i> (B)			
	6/23/2010	9:00	Net	<i>Prorocentrum minimum</i> (T)			
	6/23/2010	9:00	Net	<i>Prorocentrum scutellum</i> (B)			
	6/23/2010	9:00	Net	<i>Prorocentrum triestinum</i> (B)			
	6/23/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/23/2010	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/23/2010	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/30/2010	9:00	Net	<i>Heterocapsa rotundata</i> (B)			
	6/30/2010	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	6/30/2010	9:00	Net	<i>Rhizosolenia</i> spp. (T)			
	6/30/2010	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
BR20: Broadkill River at Milton tidal pond							
	6/23/2010	8:30	Surfc		No HABs found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	6/23/2010	12:15	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/23/2010	12:15	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	6/23/2010	11:48	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.100
	6/23/2010	11:48	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Abundant	19.600

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; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 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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<b>Broadkill River</b>							
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	6/23/2010	11:48	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/23/2010	11:48	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/23/2010	11:48	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.150
	6/23/2010	11:48	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	6/23/2010	12:32	Surfc	<i>Aphanizomenon spp. (T)</i>		Common	0.200
	6/23/2010	12:32	Surfc	<i>Microcystis spp. (T)</i>		Abundant	16.000
<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	6/22/2010	10:53	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	6/22/2010	10:53	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/22/2010	10:53	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	6/23/2010	11:24	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	6/23/2010	9:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/23/2010	9:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/23/2010	9:10	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/23/2010	9:10	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
<b>Indian River</b>							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	6/22/2010	8:20	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	3.300
	6/22/2010	8:20	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/21/2010	7:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.125
	6/21/2010	7:50	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.390
	6/21/2010	7:50	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.262
	6/21/2010	7:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.175
	6/21/2010	7:50	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/21/2010	7:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/21/2010	7:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.362

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Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 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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<b>Indian River</b>							
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	6/21/2010	7:50	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	6/21/2010	9:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR07: Holt's Landing State Park							
	6/22/2010	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	6/21/2010	10:57	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2010	10:57	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR20: Bay Colony							
	6/21/2010	7:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2010	7:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
IR36B: James Farm, Pasture Point By Boat							
	6/22/2010	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	6/22/2010	8:20	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	6/28/2010	9:25	Surfc	<i>Ceratium spp. (T)</i>		Rare	0.007
	6/28/2010	9:25	Surfc	<i>Chaetoceros spp. (T)</i>		Very Rare	
	6/28/2010	9:25	Surfc	<i>Dinophysis norvegica (T)</i>		Rare	0.001
	6/28/2010	9:25	Surfc	<i>Prorocentrum micans (B)</i>		Rare	0.003
	6/28/2010	9:25	Surfc	<i>Prorocentrum minimum (T)</i>		Rare	0.005
	6/28/2010	9:25	Surfc	<i>Prorocentrum scutellum (B)</i>		Present	0.051
	6/28/2010	9:25	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	0.028
	6/28/2010	9:25	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.008
	6/28/2010	9:25	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	6/22/2010	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/22/2010	8:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/22/2010	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/22/2010	8:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/21/2010	9:03	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/21/2010	9:03	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.188
	6/21/2010	9:03	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.540
	6/21/2010	9:03	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/21/2010	9:03	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2010	9:03	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/21/2010	9:03	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	

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<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	6/21/2010	9:03	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.150
	6/21/2010	9:05	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/21/2010	9:05	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.188
	6/21/2010	9:05	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.540
	6/21/2010	9:05	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/21/2010	9:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/21/2010	9:05	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	6/21/2010	9:05	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/21/2010	9:05	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.150
	6/28/2010	8:54	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.150
	6/28/2010	8:54	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.250
	6/28/2010	8:54	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/28/2010	8:54	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.180
	6/28/2010	8:54	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.750
	6/28/2010	8:54	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/28/2010	8:54	Surfc	<i>Prorocentrum minimum (T)</i>		Many	1.010
	6/28/2010	8:54	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	6/28/2010	8:54	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.112
	6/28/2010	8:54	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.125
<b>Little Assawoman Bay</b>							
LA45: Fenwick Island Bayside							
	6/22/2010	8:04	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	6/21/2010	7:35	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	6/21/2010	7:35	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/21/2010	7:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	6/21/2010	8:00	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	6/21/2010	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	6/21/2010	8:35	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/21/2010	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	9.000
	6/21/2010	8:35	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	6/21/2010	8:35	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	6/21/2010	8:35	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/22/2010	8:02	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	

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<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	6/22/2010	8:02	Surfc	<i>Chattonella subsalsa</i> (T)		Many	9.700
	6/22/2010	8:02	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/22/2010	8:02	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/22/2010	8:02	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/22/2010	8:02	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	6/22/2010	8:02	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Present	
	6/29/2010	7:41	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/29/2010	7:41	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/29/2010	7:41	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/29/2010	7:41	Surfc	<i>Pleurochrysis carterae</i> (B*)		Abundant	16.500
	6/29/2010	7:41	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	6/29/2010	7:41	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
SB10W: Russell Canal west dead end							
	6/22/2010	8:16	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.900
	6/22/2010	8:16	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/22/2010	8:16	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/22/2010	8:16	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	6/22/2010	8:16	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Present	
	6/29/2010	7:58	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.162
	6/29/2010	7:58	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/29/2010	7:58	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/29/2010	7:58	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/29/2010	7:58	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	6/21/2010	11:13	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	11:13	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
RB07: West Bay Park							
	6/22/2010	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/22/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/22/2010	8:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	6/21/2010	8:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/21/2010	8:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	8:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	6/21/2010	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	6/21/2010	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/21/2010	8:30	Surfc	<i>Scrippsiella sp.</i> (B)		Present	

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<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	6/29/2010	8:34	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/29/2010	8:34	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.340
	6/29/2010	8:34	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	6/29/2010	8:34	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.190
	6/29/2010	8:34	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	6/21/2010	11:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	11:35	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	6/21/2010	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	6/21/2010	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	6/21/2010	8:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	6/24/2010	8:17	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/24/2010	8:17	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/24/2010	8:17	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.112
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/21/2010	8:49	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.138
	6/21/2010	8:49	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/21/2010	8:49	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	6/21/2010	8:49	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	6/21/2010	8:49	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<b>Wagamon's Pond</b>							
BR44: Wagamon's Pond, Milton							
	6/24/2010	8:30	Surfc	<i>Gonyostomum depressa</i> (B)		Present	
	6/24/2010	8:30	Surfc	<i>Lyngbya</i> (T)		Present	

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; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 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**