

Harmful Algae Report

University of Delaware Citizen Monitoring Program

All data between 4/28/2008 and 5/31/2008

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							
	5/6/2008	9:35	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.10
	5/20/2008	9:20	Surfc		No HABS found		
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	5/7/2008	8:55	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	5/7/2008	8:55	Net	<i>Prorocentrum micans (B)</i>		Present	
	5/7/2008	8:55	Net	<i>Prorocentrum minimum (T)</i>		Present	
	5/7/2008	8:55	Net	<i>Pseudo-nitzschia spp. (T)</i>		Present	
	5/7/2008	8:55	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	5/7/2008	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/21/2008	10:10	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	5/21/2008	10:10	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/21/2008	10:10	Net	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/21/2008	10:10	Net	<i>Prorocentrum micans (B)</i>		Present	
	5/21/2008	10:10	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	5/21/2008	10:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.15
	5/21/2008	10:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	5/7/2008	11:10	Surfc		No HABS found		
	5/21/2008	11:10	Surfc		No HABS found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/21/2008	12:33	Surfc		No HABS found		
<u>Prime Hook Creek</u>							
BR02: Prime Hook NWR Petersfield Ditch water control structure, 50m N of Rt 16.							
	5/7/2008	11:45	Surfc		No HABS found		
	5/21/2008	11:50	Surfc		No HABS found		
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	5/7/2008	12:20	Surfc	<i>Anabaena spp. (T)</i>		Common	0.19
	5/21/2008	12:07	Surfc		No HABS found		
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	5/7/2008	9:30	Surfc	<i>Cryptomonad (an Order) spp. (B*)</i>		Abundant	17.60
	5/22/2008	9:28	Surfc		No HABS found		
BR40: Canary Creek at Pilottown Rd							

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.

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Delaware Bay							
<u>Canary Creek</u>							
BR40: Canary Creek at Pilottown Rd							
	5/7/2008	9:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/7/2008	9:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/21/2008	9:30	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.14
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	5/6/2008	8:33	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/20/2008	8:31	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/20/2008	8:31	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/20/2008	8:31	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	5/5/2008	8:53	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.11
	5/5/2008	8:53	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/5/2008	8:53	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.11
	5/5/2008	8:53	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	5/19/2008	10:01	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.14
	5/19/2008	10:01	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	5/6/2008	8:49	Surfc		No HABs found		
	5/20/2008	8:15	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	10.30
	5/20/2008	8:15	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	5/6/2008	10:05	Surfc		No HABs found		
	5/19/2008	9:42	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.15
IR07: Holt's Landing State Park							
	5/6/2008	8:08	Surfc		No HABs found		
	5/21/2008	8:24	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR11: Pot Nets Seaside Pier							
	5/5/2008	8:45	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/19/2008	10:00	Surfc		No HABs found		
IR20: Bay Colony							
	5/5/2008	8:05	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.10
	5/19/2008	8:10	Surfc		No HABs found		
IR21: Entrance to Boat House Pond, Indian River Bay							
	5/5/2008	7:50	Surfc		No HABs found		
	5/19/2008	7:05	Surfc		No HABs found		
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	5/6/2008	9:07	Net	<i>Ceratium</i> sp. (T)		Present	
	5/6/2008	9:07	Net	<i>Dinophysis acuminata</i> (T)		Present	

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Indian River							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	5/6/2008	9:07	Net	<i>Ditylum spp. (T)</i>		Present	
	5/6/2008	9:07	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/6/2008	9:07	Net	<i>Prorocentrum micans (B)</i>		Present	
	5/6/2008	9:07	Net	<i>Pseudo-nitzschia spp. (T)</i>		Present	
	5/6/2008	9:07	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	5/6/2008	9:07	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/6/2008	9:07	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/6/2008	9:07	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Present	
	5/21/2008	8:59	Net	<i>Ditylum spp. (T)</i>		Present	
	5/21/2008	8:59	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/21/2008	8:59	Net	<i>Prorocentrum micans (B)</i>		Present	
	5/21/2008	8:59	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.10
<u>Pepper Creek</u>							
Fish Kill** IR72B: Pepper Creek near Red "10"							
	5/7/2008	11:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/7/2008	11:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/7/2008	11:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Vines Creek</u>							
IR38: Vines Lane							
	4/29/2008	8:25	Net	<i>Scrippsiella sp. (B)</i>		Present	
	4/29/2008	8:25	Surfc	<i>Prorocentrum minimum (T)</i>		Abundant	14.30
	5/7/2008	7:35	Surfc	<i>Prorocentrum minimum (T)</i>		Many	1.10
	5/15/2008	8:00	Net	<i>Chaetoceros spp. (T)</i>		Present	
	5/15/2008	8:00	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/15/2008	8:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/29/2008	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/29/2008	7:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/20/2008	10:20	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/20/2008	10:20	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/20/2008	10:20	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
IR59: White Creek - west prong near Food Lion							
	5/7/2008	8:06	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/7/2008	8:06	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.14
	5/21/2008	8:07	Surfc	<i>Eutreptiella sp. (B)</i>		Very Abundant	125.00
	5/21/2008	8:07	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/21/2008	8:07	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/21/2008	8:07	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
IR60A: Ocean View; E Branch of White Creek							

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Indian River							
<u>White Creek</u>							
IR60A: Ocean View; E Branch of White Creek							
	5/7/2008	8:18	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	5/7/2008	8:18	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/7/2008	8:18	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/7/2008	8:18	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/7/2008	8:18	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/20/2008	8:43	Surfc		No HABs found		
Little Assawoman Bay							
LA45: Fenwick Island Bayside							
	5/6/2008	8:05	Surfc		No HABs found		
	5/20/2008	8:00	Surfc		No HABs found		
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	5/5/2008	8:06	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/5/2008	8:06	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/19/2008	8:00	Surfc	<i>Heterocapsa triquetra</i> (B)		Present	
	5/19/2008	8:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/19/2008	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	5/6/2008	8:41	Surfc	<i>Chaetoceros spp.</i> (T)		Common	0.95
	5/6/2008	8:41	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/6/2008	8:41	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/20/2008	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	5/6/2008	9:10	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/20/2008	9:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/20/2008	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/20/2008	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.45
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	5/22/2008	8:29	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	5/5/2008	8:33	Surfc	<i>Chaetoceros spp.</i> (T)		Present	
	5/5/2008	8:33	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/5/2008	8:33	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2008	9:22	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2008	9:22	Surfc	<i>Pleurochrysis carterae</i> (B*)		Very Abundant	264.00
	5/19/2008	9:22	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	5/5/2008	8:22	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/19/2008	9:13	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	

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Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10W: Russell Canal west dead end							
	5/19/2008	9:13	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	5/19/2008	8:59	Surfc		No HABs found		
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	5/19/2008	8:46	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/19/2008	8:46	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.24
Rehoboth Bay							
ML: Massey's Landing							
	5/5/2008	10:20	Surfc		No HABs found		
	5/19/2008	10:40	Surfc		No HABs found		
RB07: West Bay Park							
	5/6/2008	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/20/2008	9:00	Surfc		No HABs found		
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	5/7/2008	9:09	Surfc	<i>Dinophysis acuminata (T)</i>		Present	
	5/21/2008	9:32	Surfc	<i>Dinophysis acuminata (T)</i>		Present	0.03
	5/21/2008	9:32	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.13
	5/21/2008	9:32	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2008	9:32	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	5/5/2008	10:50	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.10
	5/5/2008	10:50	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/19/2008	11:12	Surfc		No HABs found		
RB06: Guinea Creek (Winding Creek Village)							
	5/5/2008	11:25	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.52
	5/5/2008	11:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/5/2008	11:25	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.10
	5/19/2008	10:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.79
	5/19/2008	10:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	5/5/2008	11:10	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.15
	5/5/2008	11:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/5/2008	11:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/5/2008	11:10	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.26
	5/19/2008	11:33	Surfc		No HABs found		
<u>Herring Creek</u>							

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Rehoboth Bay							
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	5/6/2008	11:12	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.64
	5/6/2008	11:12	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.11
	5/6/2008	11:12	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.16
	5/20/2008	11:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/20/2008	11:25	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	5/6/2008	8:15	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	5/6/2008	8:15	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/6/2008	8:15	Net	<i>Karlodinium veneficum (T)</i>		Present	
	5/6/2008	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/19/2008	8:30	Net	<i>Chaetoceros spp. (T)</i>		Present	
	5/19/2008	8:30	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	5/19/2008	8:30	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/19/2008	8:30	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	5/19/2008	8:30	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	5/19/2008	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.10
	5/19/2008	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/19/2008	8:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/27/2008	8:30	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	5/27/2008	8:30	Net	<i>Karlodinium veneficum (T)</i>		Present	
	5/27/2008	8:30	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	5/27/2008	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/27/2008	8:30	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	5/5/2008	11:45	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.14
	5/5/2008	11:45	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/19/2008	12:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/19/2008	12:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/19/2008	12:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/19/2008	12:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/19/2008	12:10	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Silver Lake							
<u>Silver Lake</u>							
RL01: Silver Lake, Lake Drive Bridge							
	4/29/2008	9:05	Surfc	<i>Snowella (T)</i>		Common	0.50
Wagamon's Pond							
BR44: Wagamon's Pond at 202 Lake Drive, Milton							
	5/21/2008	10:00	Surfc		No HABs found		

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