

# Harmful Algae Report

All data between 5/19/2007 and 6/1/2007

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							
	5/22/2007	9:06	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	5/22/2007	9:06	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.54
	5/22/2007	9:06	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/22/2007	9:06	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/22/2007	9:06	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	5/23/2007	11:52	Net	<i>Heterocapsa triquetra (B)</i>		Present	
	5/23/2007	11:52	Net	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/23/2007	11:52	Net	<i>Prorocentrum mexicanum (T)</i>		Present	
	5/23/2007	11:52	Net	<i>Prorocentrum micans (B)</i>		Present	
	5/23/2007	11:52	Net	<i>Prorocentrum minimum (T)</i>		Present	
	5/23/2007	11:52	Net	<i>Rhizosolenia spp. (T)</i>		Present	
	5/23/2007	11:52	Net	<i>Scrippsiella sp. (B)</i>		Present	
	5/23/2007	11:52	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/23/2007	11:52	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	5/23/2007	10:33	Surfc		No HABs found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/23/2007	12:35	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<b>Delaware Bay</b>							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	5/23/2007	11:40	Surfc		No HABs found		
	5/23/2007	15:15	Surfc		No HABs found		
BR40: Canary Creek at Pilottown Rd							
	5/23/2007	9:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/23/2007	9:55	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<b>Indian River</b>							
IR11: Big Ditch Point							
	5/21/2007	11:55	Surfc		No HABs found		
IR21: Entrance to Boat House Pond, Indian River Bay							
	5/21/2007	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							

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.

## Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Indian River</b>							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	5/22/2007	8:17	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	5/21/2007	8:43	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	5/21/2007	8:43	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.26
	5/21/2007	8:43	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2007	8:43	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.95
	5/21/2007	8:43	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/21/2007	8:43	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
	5/29/2007	8:28	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	1.39
	5/29/2007	8:28	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	5/29/2007	8:28	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/29/2007	8:28	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.50
	5/29/2007	8:28	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.17
	5/29/2007	8:28	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	5/21/2007	9:16	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/21/2007	9:16	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2007	9:16	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	5/21/2007	10:12	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	5/21/2007	10:12	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/21/2007	10:12	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
	5/29/2007	9:38	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.43
	5/29/2007	9:38	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/29/2007	9:38	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	5/29/2007	9:38	Surfc	<i>Various centric spp. (B*)</i>		Abundant	35.20
IR20: Bay Colony							
	5/21/2007	8:10	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
<u>Vines Creek</u>							
IR38: Vines Lane							
	5/23/2007	8:00	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/30/2007	9:00	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	5/30/2007	9:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/30/2007	9:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/31/2007	9:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/31/2007	9:15	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/31/2007	9:15	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>White Creek</u>							

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#### Citizen Monitoring Program

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<b>Indian River</b>							
<u>White Creek</u>							
IR29: Holly Terrace Acres Canal, White Creek							
	5/30/2007	8:30	Surfc	<i>Chaetoceros spp. (T)</i>		Many	1.10
	5/30/2007	8:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	5/30/2007	8:30	Surfc	<i>Prorocentrum minimum (T)</i>		Many	5.30
	5/30/2007	8:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/21/2007	10:05	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/21/2007	10:05	Surfc	<i>Prorocentrum minimum (T)</i>		Abundant	95.80
	5/29/2007	8:56	Surfc	<i>Prorocentrum minimum (T)</i>		Very Abundant	222.60
	5/30/2007	9:30	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.50
	5/30/2007	9:30	Surfc	<i>Prorocentrum minimum (T)</i>		Many	3.30
IR59: White Creek - west prong near Food Lion							
	5/22/2007	9:09	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.31
	5/22/2007	9:09	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/22/2007	9:09	Surfc	<i>Prorocentrum minimum (T)</i>		Many	6.60
IR60A: 4 Cristy Lane, Ocean View; E Branch of White Creek							
	5/22/2007	8:24	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/22/2007	8:24	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/22/2007	8:24	Surfc	<i>Prorocentrum minimum (T)</i>		Many	3.96
	5/29/2007	8:45	Surfc	<i>Chaetoceros spp. (T)</i>		Many	2.68
	5/29/2007	8:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.32
	5/29/2007	8:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/29/2007	8:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/29/2007	8:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/29/2007	8:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/29/2007	8:45	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	

**Little Assawoman Bay**

LA45: Fenwick Island Bayside

5/22/2007 7:58 Surfc *Karlodinium veneficum (T)* Present

Assawoman Canal

LA10: Assawoman Canal @ Kent Ave Bridge

5/21/2007 7:50 Surfc *Heterosigma akashiwo. (T)* Present

5/21/2007 7:50 Surfc *Prorocentrum minimum (T)* Present

5/30/2007 7:55 Surfc *Heterocapsa rotundata (B)* Present

5/30/2007 7:55 Surfc *Karlodinium veneficum (T)* Present

Dirickson Creek

LA03: Mulberry Landing

5/21/2007 8:55 Surfc *Akashiwo sanguineum (B)* Present

5/21/2007 8:55 Surfc *Chaetoceros spp. (T)* Many 1.08

5/21/2007 8:55 Surfc *Karlodinium veneficum (T)* Present

5/21/2007 8:55 Surfc *Prorocentrum minimum (T)* Present

5/29/2007 8:53 Surfc *Akashiwo sanguineum (B)* Present

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**Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
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**Little Assawoman Bay**

Dirickson Creek

LA03: Mulberry Landing

5/29/2007	8:53	Surfc		<i>Chaetoceros spp. (T)</i>		Common	0.10
5/29/2007	8:53	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
5/29/2007	8:53	Surfc		<i>Prorocentrum minimum (T)</i>		Present	

LA09: Dirickson Creek at Road 381 bridge.

5/21/2007	9:40	Surfc		<i>(Unknown) sp. (B*)</i>	5-10 um Obl/Grn	Abundant	15.40
5/21/2007	9:40	Surfc		<i>Gyrodinium instriatum (B)</i>		Many	1.10
5/21/2007	9:40	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
5/21/2007	9:40	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
5/21/2007	9:40	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
5/21/2007	9:40	Surfc		<i>Prorocentrum minimum (T)</i>		Many	1.83
5/29/2007	8:28	Surfc		<i>Gyrodinium instriatum (B)</i>		Abundant	17.20
5/29/2007	8:28	Surfc		<i>Heterocapsa triquetra (B)</i>		Present	
5/29/2007	8:28	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
5/29/2007	8:28	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	
5/29/2007	8:28	Surfc		<i>Prorocentrum minimum (T)</i>		Present	
5/29/2007	8:28	Surfc		<i>Scrippsiella sp. (B)</i>		Present	

LA20: Swann Keys: boat ramp at S end of Blue Teal Rd

5/22/2007	8:55	Surfc		<i>Chaetoceros spp. (T)</i>		Present	
5/22/2007	8:55	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
5/22/2007	8:55	Surfc		<i>Prorocentrum minimum (T)</i>		Present	
5/29/2007	8:15	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Present	
5/29/2007	8:15	Surfc		<i>Gyrodinium instriatum (B)</i>		Common	0.10
5/29/2007	8:15	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
5/29/2007	8:15	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
5/29/2007	8:15	Surfc		<i>Kryptoperidinium foliaceum (B)</i>		Present	

Jefferson Creek

SB10E: SB: Russell Canal east dead end

5/21/2007	8:31	Surfc			No HABs found		
5/29/2007	7:56	Surfc		<i>Akashiwo sanguineum (B)</i>		Present	
5/29/2007	7:56	Surfc		<i>Gyrodinium instriatum (B)</i>		Present	
5/29/2007	7:56	Surfc		<i>Karlodinium veneficum (T)</i>		Present	
5/29/2007	7:56	Surfc		<i>Prorocentrum minimum (T)</i>		Present	

SB10W: SB: Russell Canal west dead end

5/21/2007	8:26	Surfc			No HABs found		
5/29/2007	8:18	Surfc		<i>Karlodinium veneficum (T)</i>		Present	

Miller Creek

LA31: Double Bridges road bridge at Plantation Park

5/22/2007	8:03	Surfc			No HABs found		
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Williams Creek

LA21: Williams Creek tributary, bridge on Rd 364a

5/21/2007	9:30	Surfc		<i>Gyrodinium instriatum (B)</i>		Present	
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**Citizen Monitoring Program**

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<b>Little Assawoman Bay</b>							
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	5/21/2007	9:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/21/2007	9:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/21/2007	9:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/21/2007	9:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	5/21/2007	9:30	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	5/29/2007	8:38	Surfc	(Unknown) sp. (B*)	5-10 um Obl/Grn	Abundant	17.60
	5/29/2007	8:38	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/29/2007	8:38	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	7.50
	5/29/2007	8:38	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Abundant	20.90
	5/29/2007	8:38	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Many	1.54
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	5/21/2007	11:40	Surfc		No HABs found		
RB07: West Bay Park							
	5/22/2007	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/22/2007	8:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/22/2007	8:40	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	5/22/2007	9:50	Surfc	<i>Cochlodinium</i> sp. (T)		Present	
	5/22/2007	9:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/29/2007	9:27	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	5/29/2007	9:27	Surfc	<i>Karlodinium veneficum</i> (T)		Many	2.64
	5/29/2007	9:27	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.13
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	5/21/2007	12:12	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	5/21/2007	12:12	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	5/21/2007	8:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	5/21/2007	8:35	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	5/21/2007	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/21/2007	8:35	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.43
	5/29/2007	10:03	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	5/29/2007	10:03	Surfc	<i>Chaetoceros</i> spp. (T)		Many	7.25
	5/29/2007	10:03	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	5/29/2007	10:03	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.32
	5/29/2007	10:03	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.71
	5/29/2007	10:03	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.17
	5/29/2007	10:03	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	5/29/2007	10:03	Surfc	<i>Various pennates</i> spp. (B*)		Abundant	30.80

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#### Citizen Monitoring Program

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<b>Rehoboth Bay</b>							
<u>Guinea Creek</u>							
RB06A: Guinea Creek @ Rd 298 Bridge							
	5/21/2007	12:25	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2007	12:25	Surfc	<i>Prorocentrum minimum (T)</i>		Many	2.92
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	5/22/2007	10:52	Surfc		No HABs found		
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	5/22/2007	11:33	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/22/2007	11:33	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/29/2007	9:45	Surfc	<i>Cochlodinium sp. (T)</i>		Present	
	5/29/2007	9:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	5/29/2007	9:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/29/2007	9:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	5/29/2007	9:45	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.25
	5/29/2007	9:45	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<b>Wagamon's Pond</b>							
BR44: Wagamon's Pond at 202 Lake Drive, Milton							
	5/24/2007	10:00	Surfc		No HABs found		

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