

# Harmful Algae Report

All data between 7/1/2010 and 7/22/2010

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							
	7/13/2010	8:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	7/13/2010	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<b>Atlantic Ocean</b>							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	7/6/2010	9:15	Surfc	"Gymnodinioid" sp. (S)	25-40 um Grn	Many	7.700
	7/6/2010	9:15	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.005
	7/6/2010	9:15	Surfc	<i>Chaetoceros</i> spp. (T)		Rare	0.001
	7/6/2010	9:15	Surfc	<i>Ditylum</i> spp. (T)		Very Rare	
	7/6/2010	9:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Very Rare	
	7/6/2010	9:15	Surfc	<i>Heterosigma akashiwo</i> (T)		Rare	0.007
	7/6/2010	9:15	Surfc	<i>Karlodinium veneficum</i> (T)		Rare	0.002
	7/6/2010	9:15	Surfc	<i>Prorocentrum micans</i> (B)		Very Rare	
	7/6/2010	9:15	Surfc	<i>Prorocentrum minimum</i> (T)		Rare	0.002
	7/6/2010	9:15	Surfc	<i>Prorocentrum scutellum</i> (B)		Rare	0.004
	7/6/2010	9:15	Surfc	<i>Prorocentrum triestinum</i> (B)		Rare	0.008
	7/6/2010	9:15	Surfc	<i>Rhizosolenia</i> spp. (T)		Rare	0.002
	7/6/2010	9:15	Surfc	<i>Scrippsiella</i> sp. (B)		Very Rare	
	7/20/2010	9:00	Surfc	<i>Ceratium fusus</i> (B)		Rare	0.001
	7/20/2010	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.017
	7/20/2010	9:00	Surfc	<i>Prorocentrum minimum</i> (T)		Rare	0.002
	7/20/2010	9:00	Surfc	<i>Prorocentrum scutellum</i> (B)		Rare	0.005
	7/20/2010	9:00	Surfc	<i>Prorocentrum triestinum</i> (B)		Rare	0.002
RWPM8: Cape Henlopen State Park Beach (2)							
	7/13/2010	9:45	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.001
	7/13/2010	9:45	Surfc	<i>Chaetoceros</i> spp. (T)		Present	0.024
	7/13/2010	9:45	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	7/13/2010	9:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Rare	0.001
	7/13/2010	9:45	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	7/13/2010	9:45	Surfc	<i>Prorocentrum scutellum</i> (B)		Rare	0.002
	7/13/2010	9:45	Surfc	<i>Prorocentrum triestinum</i> (B)		Very Rare	
	7/13/2010	9:45	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
RWPMIV: Fenwick Island State Park							
	7/6/2010	8:30	Surfc	"Gymnodinioid" sp. (S)	25-40 um Grn	Rare	0.003
	7/6/2010	8:30	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.002
	7/6/2010	8:30	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.100
	7/6/2010	8:30	Surfc	<i>Dinophysis norvegica</i> (T)		Very Rare	
	7/6/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Rare	0.001

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

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<b>Atlantic Ocean</b>							
RWPMIV: Fenwick Island State Park							
	7/6/2010	8:30	Surfc	<i>Prorocentrum micans (B)</i>		Rare	0.002
	7/6/2010	8:30	Surfc	<i>Prorocentrum minimum (T)</i>		Rare	0.006
	7/6/2010	8:30	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.009
	7/6/2010	8:30	Surfc	<i>Prorocentrum triestinum (B)</i>		Rare	0.007
	7/6/2010	8:30	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.001
	7/6/2010	8:30	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.001
	7/6/2010	8:30	Surfc	<i>Scrippsiella sp. (B)</i>		Very Rare	
	7/20/2010	8:15	Surfc	<i>Ceratium pentagonum (B)</i>		Rare	0.002
	7/20/2010	8:15	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.015
	7/20/2010	8:15	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	7/20/2010	8:15	Surfc	<i>Prorocentrum minimum (T)</i>		Rare	0.006
	7/20/2010	8:15	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.003
	7/20/2010	8:15	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	0.014
	7/20/2010	8:15	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.001
<b>Broadkill River</b>							
BR01: Broadkill river @ PEL dock.							
	7/8/2010	9:00	Net	<i>Chaetoceros spp. (T)</i>			
	7/8/2010	9:00	Net	<i>Rhizosolenia spp. (T)</i>			
	7/8/2010	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/8/2010	9:00	Surfc	<i>Prorocentrum scutellum (B)</i>		Present	
	7/14/2010	9:00	Net	<i>Ceratium spp. (T)</i>			
	7/14/2010	9:00	Net	<i>Chaetoceros spp. (T)</i>			
	7/14/2010	9:00	Net	<i>Heterocapsa rotundata (B)</i>			
	7/14/2010	9:00	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	7/14/2010	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.140
	7/14/2010	9:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/14/2010	9:00	Surfc	<i>Prorocentrum scutellum (B)</i>		Present	
	BR20: Broadkill River at Milton tidal pond						
	7/14/2010	7:30	Surfc	<i>Microcystis spp. (T)</i>		Common	0.500
<b>Diamond Pond</b>							
BR48: Diamond Pond							
	7/14/2010	11:12	Surfc		No HABs found		
<b>Old Mill Creek</b>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	7/14/2010	12:25	Surfc	<i>Anabaena spp. (T)</i>		Common	0.130
	7/14/2010	12:25	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.110
	7/14/2010	12:25	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<b>Prime Hook Creek</b>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	7/14/2010	12:00	Surfc	<i>Chaetoceros spp. (T)</i>		Many	5.800
	7/14/2010	12:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/14/2010	12:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	

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<b>Broadkill River</b>							
<u>Prime Hook Creek</u>							
BR03: Prime Hook Creek at Boat Ramp at Refuge Headquarters							
	7/14/2010	12:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/14/2010	12:00	Surfc	<i>Prymnesium sp. (T)</i>		Very Abundant	113.000
	7/22/2010	14:55	Surfc	<i>Chaetoceros spp. (T)</i>		Common	
	7/22/2010	14:55	Surfc	<i>Karlodinium veneficum (T)</i>		Many	2.625
	7/22/2010	14:55	Surfc	<i>Prymnesium sp. (T)</i>		Very Abundant	1078.000
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	7/14/2010	12:45	Surfc	<i>Anabaena spp. (T)</i>		Many	7.600
	7/14/2010	12:45	Surfc	<i>Aphanizomenon spp. (T)</i>		Common	0.380
	7/14/2010	12:45	Surfc	<i>Microcystis spp. (T)</i>		Abundant	13.300
<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	7/6/2010	10:14	Surfc	<i>Chaetoceros spp. (T)</i>		Common	
	7/6/2010	10:14	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/6/2010	10:14	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Prorocentrum scutellum (B)</i>		Present	
	7/20/2010	8:57	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.120
	7/20/2010	8:57	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	7/15/2010	13:30	Surfc	<i>Heterosigma akashiwo (T)</i>		Many	8.800
	7/15/2010	13:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/15/2010	13:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	7/14/2010	9:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.130
	7/14/2010	9:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/14/2010	9:30	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	
<b>Indian River</b>							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	7/13/2010	8:10	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	7/13/2010	8:10	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	7/13/2010	8:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2010	8:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/13/2010	8:10	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/13/2010	8:10	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Bethany Loop Canal</u>							

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<b>Indian River</b>							
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	7/12/2010	8:06	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	0.012
	7/12/2010	8:06	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/12/2010	8:06	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/12/2010	8:06	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.338
	7/12/2010	8:06	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.175
	7/12/2010	8:06	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.125
	7/12/2010	8:06	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	7/12/2010	9:39	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.237
	7/12/2010	9:39	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
IR07: Holt's Landing State Park							
	7/6/2010	7:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/6/2010	7:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/6/2010	7:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/13/2010	7:40	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	7/12/2010	11:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.138
	7/12/2010	11:05	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/12/2010	11:05	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/12/2010	11:05	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	7/12/2010	11:05	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
IR20: Bay Colony							
	7/12/2010	7:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR36B: James Farm, Pasture Point By Boat							
	7/13/2010	9:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2010	9:45	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	7/13/2010	10:00	Surfc	<i>Ceratium spp. (T)</i>		Rare	0.006
	7/13/2010	10:00	Surfc	<i>Chaetoceros spp. (T)</i>		Present	0.092
	7/13/2010	10:00	Surfc	<i>Dinophysis acuminata (T)</i>		Rare	0.001
	7/13/2010	10:00	Surfc	<i>Dinophysis norvegica (T)</i>		Very Rare	
	7/13/2010	10:00	Surfc	<i>Prorocentrum minimum (T)</i>		Very Rare	
	7/13/2010	10:00	Surfc	<i>Prorocentrum scutellum (B)</i>		Rare	0.006
	7/13/2010	10:00	Surfc	<i>Prorocentrum triestinum (B)</i>		Very Rare	
	7/13/2010	10:00	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.002
<u>Vines Creek</u>							
IR38: Vines Lane							
	7/13/2010	7:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/13/2010	7:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.540
	7/13/2010	7:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	

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<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	7/7/2010	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.688
	7/7/2010	8:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/7/2010	8:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.213
	7/7/2010	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/7/2010	8:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/7/2010	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Many	1.140
	7/7/2010	8:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/7/2010	8:00	Surfc	<i>Leptocylindrus spp. (B*)</i>		Abundant	48.400
	7/7/2010	8:00	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.138
	7/7/2010	8:00	Surfc	<i>Prorocentrum triestinum (B)</i>		Present	
	7/7/2010	8:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.100
	7/7/2010	8:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	7/12/2010	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/12/2010	8:55	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.300
	7/12/2010	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.190
	7/12/2010	8:55	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/12/2010	8:55	Surfc	<i>Leptocylindrus spp. (B*)</i>		Abundant	26.400
	7/12/2010	8:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Chattonella subsalsa (T)</i>		Many	8.800
	7/12/2010	9:00	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.190
	7/12/2010	9:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Leptocylindrus spp. (B*)</i>		Abundant	17.600
	7/12/2010	9:00	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	7/12/2010	9:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.100
	7/19/2010	8:32	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.313
	7/19/2010	8:32	Surfc	<i>Leptocylindrus spp. (B*)</i>		Abundant	22.000
	7/19/2010	8:32	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	7/19/2010	8:32	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	

**Little Assawoman Bay**

LA45: Fenwick Island Bayside

7/13/2010 8:10 Surfc *Heterocapsa rotundata (B)* Present

Assawoman Canal

LA10: Assawoman Canal @ Kent Ave Bridge

7/12/2010 7:45 Surfc *Heterocapsa rotundata (B)* Present

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<b>Little Assawoman Bay</b>							
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	7/12/2010	7:45	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	7/12/2010	7:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/12/2010	7:55	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	7/12/2010	8:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/12/2010	8:30	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.600
	7/12/2010	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Abundant	32.000
	7/12/2010	8:30	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.100
	7/12/2010	8:30	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.100
	7/12/2010	8:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	7/6/2010	8:58	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.160
	7/6/2010	8:58	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/6/2010	8:58	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.100
	7/6/2010	8:58	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/13/2010	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.360
	7/13/2010	8:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/13/2010	8:00	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	7/13/2010	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2010	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/13/2010	8:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Akashiwo sanguinea (T)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	8.600
	7/20/2010	7:57	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.560
	7/20/2010	7:57	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.160
	7/20/2010	7:57	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/20/2010	7:57	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
SB10W: Russell Canal west dead end							
	7/6/2010	8:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.550
	7/6/2010	8:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/13/2010	8:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/13/2010	8:20	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/13/2010	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	

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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.

**University of Delaware Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10W: Russell Canal west dead end							
	7/13/2010	8:20	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/20/2010	8:00	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	0.012
	7/20/2010	8:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	2.400
	7/20/2010	8:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.120
	7/20/2010	8:00	Surfc	<i>Fibrocapsa japonica</i> (T)		Common	0.480
	7/20/2010	8:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/20/2010	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/20/2010	8:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/20/2010	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/20/2010	8:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/20/2010	8:00	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	7/12/2010	11:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/12/2010	11:25	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/12/2010	11:25	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/12/2010	11:25	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
RB07: West Bay Park							
	7/13/2010	8:00	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	0.088
	7/13/2010	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/13/2010	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/13/2010	8:00	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	7/12/2010	8:33	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2010	8:33	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/12/2010	8:33	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.188
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	7/7/2010	8:35	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.250
	7/7/2010	8:35	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.213
	7/7/2010	8:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/7/2010	8:35	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.550
	7/7/2010	8:35	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/7/2010	8:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/12/2010	8:44	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/12/2010	8:44	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2010	8:44	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.212
	7/12/2010	8:44	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/12/2010	8:44	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.100
	7/19/2010	9:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/19/2010	9:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.113

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**University of Delaware Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	7/19/2010	9:10	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/19/2010	9:10	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.275
	7/19/2010	9:10	Surfc	<i>Leptocylindrus spp.</i> (B*)		Abundant	30.800
	7/19/2010	9:10	Surfc	<i>Oscillatoria spp.</i> (B)		Common	0.500
	7/19/2010	9:10	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	7/19/2010	9:10	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	7/12/2010	11:45	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	0.012
	7/12/2010	11:45	Surfc	<i>Chaetoceros spp.</i> (T)		Present	
	7/12/2010	11:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.110
	7/12/2010	11:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/12/2010	11:45	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	7/12/2010	8:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/12/2010	8:30	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.700
	7/12/2010	8:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2010	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/12/2010	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	7/15/2010	8:14	Surfc	<i>Akashiwo sanguinea</i> (T)		Present	
	7/15/2010	8:14	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.160
	7/15/2010	8:14	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	7/12/2010	9:08	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.450
	7/12/2010	9:08	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/12/2010	9:08	Surfc	<i>Gyrodinium instriatum</i> (B)		Abundant	10.100
	7/12/2010	9:08	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/12/2010	9:08	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/12/2010	9:08	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<b>Wagamon's Pond</b>							
BR44: Wagamon's Pond, Milton							
	7/22/2010	8:30	Surfc	<i>Aphanizomenon spp.</i> (T)		Present	
	7/22/2010	8:30	Surfc	<i>Lyngbya</i> (T)		Present	

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