

Harmful Algae Report

All data between 8/22/2008 and 9/4/2008

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							
	8/26/2008	9:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/26/2008	9:10	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	8/26/2008	9:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/26/2008	9:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/26/2008	9:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
Atlantic Ocean							
AT04: 2.0 miles from IR Inlet at 106 d bearing							
	8/25/2008	13:00	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	8/25/2008	13:00	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Very Rare	
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	8/31/2008	17:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Very Rare	
	8/31/2008	17:05	Surfc	<i>Prorocentrum micans (B)</i>		Very Rare	
	8/31/2008	17:05	Surfc	<i>Prorocentrum sp. (T)</i>		Very Rare	
	8/31/2008	17:05	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
	9/4/2008	12:42	Surfc		No HABs found		
RWPM8: Cape Henlopen State Park Beach (2)							
	8/28/2008	8:50	Surfc	<i>Chaetoceros spp. (T)</i>		Very Rare	
	8/28/2008	8:50	Surfc	<i>Karenia papilionacea (T)</i>		Very Rare	
	8/28/2008	8:50	Surfc	<i>Prorocentrum gracile (B)</i>		Very Rare	
	8/28/2008	8:50	Surfc	<i>Prorocentrum sp. (T)</i>		Very Rare	
	8/28/2008	8:50	Surfc	<i>Rhizosolenia spp. (T)</i>		Very Rare	
RWPMIV: Fenwick Island State Park							
	9/4/2008	10:12	Surfc	<i>Prorocentrum sp. (T)</i>		Rare	0.001
RWPMXXIX: 3-R's Beach							
	8/24/2008	16:20	Surfc	<i>Chaetoceros spp. (T)</i>		Very Rare	
	8/24/2008	16:20	Surfc	<i>Prorocentrum minimum (T)</i>		Very Rare	
	8/24/2008	16:20	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Very Rare	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	9/3/2008	9:00	Net	<i>Chaetoceros spp. (T)</i>			
	9/3/2008	9:00	Net	<i>Karlodinium veneficum (T)</i>			
	9/3/2008	9:00	Net	<i>Prorocentrum sp. (T)</i>			
	9/3/2008	9:00	Surfc		No HABs found		
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	8/28/2008	10:01	Surfc		No HABs found		

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	8/25/2008	9:21	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.800
	8/25/2008	9:21	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/25/2008	9:21	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	8/25/2008	8:58	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.300
	8/25/2008	8:58	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.060
	8/25/2008	8:58	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.988
	8/25/2008	8:58	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.125
	8/25/2008	8:58	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/25/2008	8:58	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	8/25/2008	9:09	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/25/2008	9:09	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.325
	8/25/2008	9:09	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/25/2008	9:09	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.325
	8/25/2008	9:09	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.275
	8/25/2008	9:09	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/25/2008	9:09	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	8/25/2008	9:09	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Indian River</u>							
IR04: Warwick Cove							
	8/25/2008	10:20	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/25/2008	10:20	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/25/2008	10:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR07: Holt's Landing State Park							
	8/26/2008	8:56	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	8/25/2008	9:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
IR21: Entrance to Boat House Pond, Indian River Bay							
	8/25/2008	7:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/25/2008	7:10	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
IR36B: James Farm, Pasture Point							
	8/26/2008	7:57	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/26/2008	7:57	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/26/2008	7:57	Surfc	<i>Karlodinium veneficum (T)</i>		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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Indian River							
<u>Indian River</u>							
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	8/28/2008	8:25	Net	<i>Ceratium spp. (T)</i>			
	8/28/2008	8:25	Net	<i>Chaetoceros spp. (T)</i>			
	8/28/2008	8:25	Net	<i>Gyrodinium instriatum (B)</i>			
	8/28/2008	8:25	Net	<i>Prorocentrum sp. (T)</i>			
	8/28/2008	8:25	Net	<i>Pseudo-nitzschia spp. (T)</i>			
	8/28/2008	8:25	Net	<i>Rhizosolenia spp. (T)</i>			
	8/28/2008	8:25	Surfc	<i>Amphidinium spp. (T)</i>		Very Rare	
	8/28/2008	8:25	Surfc	<i>Chaetoceros spp. (T)</i>		Rare	0.008
	8/28/2008	8:25	Surfc	<i>Dinophysis acuminata (T)</i>		Very Rare	
	8/28/2008	8:25	Surfc	<i>Prorocentrum gracile (B)</i>		Very Rare	
	8/28/2008	8:25	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Very Rare	
	8/28/2008	8:25	Surfc	<i>Rhizosolenia spp. (T)</i>		Rare	0.001
<u>Vines Creek</u>							
IR38: Vines Lane							
	8/26/2008	8:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Dinophysis acuminata (T)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	8/26/2008	8:00	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	8/26/2008	9:50	Surfc	<i>Amphidinium spp. (T)</i>		Common	0.100
	8/26/2008	9:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.688
	8/26/2008	9:50	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/26/2008	9:50	Surfc	<i>Fibrocapsa japonica (T)</i>		Common	0.238
	8/26/2008	9:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/26/2008	9:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/26/2008	9:50	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.225
	8/26/2008	9:50	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/26/2008	9:50	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
IR59: White Creek - west prong near Food Lion							
	8/25/2008	9:42	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	3.300
	8/25/2008	9:42	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/25/2008	9:42	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/25/2008	9:42	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.100
	8/25/2008	9:42	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
	8/25/2008	9:42	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	
IR60A: Ocean View; E Branch of White Creek							
	8/25/2008	9:36	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	3.740

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Indian River							
<u>White Creek</u>							
IR60A: Ocean View; E Branch of White Creek							
	8/25/2008	9:36	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/25/2008	9:36	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/25/2008	9:36	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/25/2008	9:36	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	8/25/2008	9:36	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	8/25/2008	9:36	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
Little Assawoman Bay							
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	8/25/2008	8:30	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/25/2008	8:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/25/2008	8:30	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/25/2008	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/25/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/25/2008	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/25/2008	8:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/25/2008	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/25/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.163
LA09: Dirickson Creek at Road 381 bridge.							
	8/25/2008	9:23	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/25/2008	9:23	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/25/2008	9:23	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/25/2008	9:23	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.200
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	8/26/2008	8:50	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/26/2008	8:50	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/26/2008	8:50	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/26/2008	8:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2008	8:50	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Jefferson Creek</u>							
SB07: Layton Canal, South Bethany							
	8/26/2008	7:28	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/26/2008	7:28	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/26/2008	7:28	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2008	7:28	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
SB10E: Russell Canal east dead end							
	8/26/2008	10:37	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/26/2008	10:37	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2008	10:37	Surfc	<i>Heterosigma akashiwo</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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	8/26/2008	10:37	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
SB10W: Russell Canal west dead end							
	8/26/2008	10:28	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.112
	8/26/2008	10:28	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/26/2008	10:28	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2008	10:28	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	8/26/2008	10:28	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	8/26/2008	8:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/26/2008	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.150
	8/26/2008	8:30	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.300
	8/26/2008	8:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/25/2008	9:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	6.200
	8/25/2008	9:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.138
	8/25/2008	9:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/25/2008	9:05	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Common	0.125
Rehoboth Bay							
ML: Massey's Landing							
	8/25/2008	11:30	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
RB07: West Bay Park							
	8/26/2008	7:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/26/2008	7:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
<u>Arnell Creek</u>							
AC2S: DNREC Site, Arnell Creek, surface sample							
	8/28/2008	14:00	Surfc	<i>Amphidinium spp.</i> (T)		Present	
	8/28/2008	14:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/28/2008	14:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.163
	8/28/2008	14:00	Surfc	<i>V. small, <5 um centrics</i> (B*)		Abundant	13.200
	9/4/2008	9:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/4/2008	9:35	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/4/2008	9:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	8/29/2008	9:05	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	8/29/2008	9:05	Surfc	<i>Chattonella subsalsa</i> (T)		Many	8.400
	8/29/2008	9:05	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	1.100
	8/29/2008	9:05	Surfc	<i>Heterosigma akashiwo.</i> (T)		Many	4.000

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	8/29/2008	9:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	8/29/2008	9:05	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/29/2008	9:05	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
RB64: Torquay Canal, west side of Land's End near UD Site #1							
***** Fish Kill	8/29/2008	9:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.838
	8/29/2008	9:00	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	8/29/2008	9:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.175
	8/29/2008	9:00	Surfc	<i>Heterosigma akashiwo</i> (T)			
	8/29/2008	9:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
RB69: Torquay Canal DNREC site. TC1							
	8/28/2008	15:00	Surfc	<i>Chattonella subsalsa</i> (T)		Many	6.050
	8/28/2008	15:00	Surfc	<i>Cochlodinium sp.</i> (T)		Present	
	8/28/2008	15:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.263
	8/28/2008	15:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/28/2008	15:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.113
	8/28/2008	15:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.100
	8/28/2008	15:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/28/2008	15:00	Surfc	<i>Oscillatoria spp.</i> (B)		Common	0.125
	9/4/2008	8:54	Surfc	<i>Amphidinium spp.</i> (T)		Present	
	9/4/2008	8:54	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.313
	9/4/2008	8:54	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.125
	9/4/2008	8:54	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/4/2008	8:54	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.150
	9/4/2008	8:54	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	9/4/2008	8:54	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	9/4/2008	8:54	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	8/25/2008	11:50	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/25/2008	11:50	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.150
	8/25/2008	11:50	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	8/25/2008	8:00	Surfc	<i>"Gymnodinioid" sp.</i> (S)	10-15 um Grn	Present	
	8/25/2008	8:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.325
	8/25/2008	8:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.125
	8/25/2008	8:00	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.288
	8/25/2008	8:00	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	8/25/2008	8:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/25/2008	8:00	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	8/25/2008	12:15	Surfc	<i>(Unknown) sp.</i> (B*)	5-15 um Grn trdrp	Abundant	13.200

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MC/L
Rehoboth Bay							
<u>Guinea Creek</u>							
RB06A: Guinea Creek @ Rd 298 Bridge							
	8/25/2008	12:15	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	8/25/2008	12:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/25/2008	12:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.200
	8/25/2008	12:15	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	8/26/2008	8:30	Net	<i>Chaetoceros spp. (T)</i>			
	8/26/2008	8:30	Net	<i>Dinophysis norvegica (T)</i>			
	8/26/2008	8:30	Net	<i>Karlodinium veneficum (T)</i>			
	8/26/2008	8:30	Net	<i>Prorocentrum sp. (T)</i>			
	8/26/2008	8:30	Net	<i>Rhizosolenia spp. (T)</i>			
	8/26/2008	8:30	Surfc		No HABs found		
	9/2/2008	8:20	Net	<i>Chaetoceros spp. (T)</i>			
	9/2/2008	8:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/26/2008	10:17	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	60.500
	8/26/2008	10:17	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/26/2008	10:17	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/26/2008	10:17	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
RLC2S: DNREC site, upper Love Creek							
	8/28/2008	12:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	8/28/2008	12:50	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	66.000
	8/28/2008	12:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/28/2008	12:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.175
	8/28/2008	12:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.100
	8/28/2008	12:50	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.525
	8/28/2008	12:50	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/4/2008	10:08	Surfc	<i>(Unknown) sp. (B*)</i>	5-15 um Grn trdrp	Abundant	17.600
	9/4/2008	10:08	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.100
	9/4/2008	10:08	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/4/2008	10:08	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/4/2008	10:08	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
Wagamon's Pond							
BR44: Wagamon's Pond, Milton							
	8/27/2008	7:45	Surfc	<i>Anabaena spp. (T)</i>		Present	
	8/27/2008	7:45	Surfc	<i>Oscillatoria spp. (B)</i>		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