

# Harmful Algae Report

Delaware Inland Bays Citizen Monitor Program

All data from 8/9/03

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Assawoman Bay</b>							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	8/11/03	9:50	Surfc		No HABs found		
BA02: Keenwick Sound, entrance to canal system							
	8/11/03	9:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/11/03	9:35	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/11/03	9:35	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/11/03	9:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/11/03	9:35	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/11/03	9:35	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
<b>Assawoman Canal</b>							
IR50: Assawoman Canal at N end, marina dock							
	8/19/03	15:07	Surfc	<i>Akashiwo sanguineum (B)</i>		Common	0.71
	8/19/03	15:07	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/19/03	15:07	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	15:07	Surfc	<i>Prorocentrum gracile</i>		Present	
	8/19/03	15:07	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	
LA10: BB: Assawoman Canal @ Kent Ave Bridge							
	8/10/03	8:00	Srhc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/10/03	8:00	Srhc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/10/03	8:00	Srhc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/10/03	8:00	Srhc	<i>Protopteridinium quinquecorne (B)</i>		Present	
	8/19/03	14:50	Surfc	<i>Akashiwo sanguineum (B)</i>		Common	0.75
	8/19/03	14:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	14:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/19/03	14:50	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	
	8/19/03	14:50	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, 1st terminus, Bethany Beach							
	8/21/03	9:47	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/21/03	9:47	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	1.00
	8/21/03	9:47	Surfc	<i>Chattonella subsalsa (T)</i>		Many	6.50
	8/21/03	9:47	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/21/03	9:47	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Many	1.25
	8/21/03	9:47	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Common	0.15
IR63: Salt Pond; dock at Pond Acres road.							
	8/21/03	9:35	Surfc	<i>Akashiwo sanguineum (B)</i>		Common	0.40
	8/21/03	9:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/21/03	9:35	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially							
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;							
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.							

## Delaware Inland Bays Citizen Monitoring Program

21-Aug-03

University of Delaware SGMAS, 700 Pilottown Rd, Lewes, DE 19958 (302) 645-4252

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Assawoman Canal</b>							
<u>Bethany Loop Canal</u>							
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	8/21/03	9:20	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	8/21/03	9:20	Surfc	Akashiwo sanguineum (B)		Present	
	8/21/03	9:20	Surfc	Chattonella cf. verruculosa (T)		Common	0.40
	8/21/03	9:20	Surfc	Chattonella subsalsa (T)		Present	
	8/21/03	9:20	Surfc	Fibrocapsa japonica (T)		Common	0.70
	8/21/03	9:20	Surfc	Gyrodinium instriatum (B)		Common	0.26
	8/21/03	9:20	Surfc	Heterocapsa rotundata (B)		Present	
	8/21/03	9:20	Surfc	Protoperidinium quinquecorne (B)		Common	0.26
<b>Atlantic Ocean</b>							
RWPM11: Rehoboth Rehoboth Ave (2)							
	8/18/03	11:36	Surfc	Chaetoceros sp. (T)		Present	
	8/18/03	11:36	Surfc	Heterocapsa rotundata (B)		Present	
RWPM14: Delaware Seashore State Park at Tower Road							
	8/18/03	11:03	Surfc	Chaetoceros sp. (T)		Present	
	8/18/03	11:03	Surfc	Heterocapsa rotundata (B)		Present	
	8/18/03	11:03	Surfc	Heterosigma akashiwo. (T)		Present	
RWPM8: Cape Henlopen State Park Beach (2)							
	8/18/03	12:41	Surfc	Chaetoceros sp. (T)		Present	
	8/18/03	12:41	Surfc	Prorocentrum minimum (T)		Present	
RWPM9: Gordon's Pond (1)							
	8/18/03	12:00	Surfc	Heterocapsa rotundata (B)		Present	
<b>Delaware Bay</b>							
RWPM7a: Lewes North (2)							
	8/18/03	13:00	Surfc	Chaetoceros sp. (T)		Present	
	8/18/03	13:00	Surfc	Heterocapsa rotundata (B)		Present	
	8/18/03	13:00	Surfc	Heterosigma akashiwo. (T)		Present	
	8/18/03	13:00	Surfc	Scrippsiella sp. (B)		Present	
<b>Indian River</b>							
IR04: Warwick Cove							
	8/11/03	9:53	Surfc		No HABs found		
IR07: Holt's Landing State Park							
	8/13/03	12:44	Srhc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	8/13/03	12:44	Srhc	Chaetoceros sp. (T)		Present	
IR11: Big Ditch Point							
	8/11/03	11:15	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	8/11/03	11:15	Surfc	Chaetoceros sp. (T)		Present	
	8/11/03	11:15	Surfc	Heterocapsa rotundata (B)		Present	
	8/11/03	11:15	Surfc	Prorocentrum gracile		Present	
	8/11/03	11:15	Surfc	Prorocentrum minimum (T)		Present	
IR20: Bay Colony							
	8/11/03	7:45	Surfc	Akashiwo sanguineum (B)		Present	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially  
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;  
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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Indian River</b>							
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	8/13/03	12:02	Srfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/13/03	12:02	Srfc	<i>Chaetoceros sp. (T)</i>		Present	
IR5S: DNREC site, Upper Indian River							
	8/19/03	9:56	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.44
IRB5W: shellfish site, upper Indian River Bay							
	8/19/03	11:06	WWC	<i>Akashiwo sanguineum (B)</i>		Common	0.22
	8/19/03	11:06	WWC	<i>Chaetoceros sp. (T)</i>		Common	
	8/19/03	11:06	WWC	<i>Gyrodinium instriatum (B)</i>		Present	
	8/19/03	11:06	WWC	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	11:06	WWC	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/19/03	11:06	WWC	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/19/03	11:06	WWC	<i>Scrippsiella sp. (B)</i>		Common	0.10
<b>Pepper Creek</b>							
IP2S: DNREC site, upper Pepper Creek							
	8/19/03	10:36	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/19/03	10:36	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/19/03	10:36	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/19/03	10:36	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.40
	8/19/03	10:36	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<b>Vine Creek</b>							
IR37: Vine Creek at Rt 26							
	8/17/03	11:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.90
<b>White Creek</b>							
IR32: Holly Terrace Acres							
	8/11/03	11:40	Surfc	<i>"Gymnodinioid" sp. (S)</i>	20 um Clr	Common	0.10
	8/11/03	11:40	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.15
	8/11/03	11:40	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	6.00
	8/11/03	11:40	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.26
	8/11/03	11:40	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	8/11/03	11:40	Surfc	<i>Gyrodinium uncatenum (B)</i>		Present	
	8/11/03	11:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.17
	8/11/03	11:40	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/11/03	11:40	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.15
	8/13/03	9:00	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.20
	8/13/03	9:00	Srfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/13/03	9:00	Srfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/13/03	9:00	Srfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/13/03	9:00	Srfc	<i>Heterocapsa rotundata (B)</i>		Common	0.15
	8/13/03	9:00	Srfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/13/03	9:00	Srfc	<i>Prorocentrum gracile</i>		Common	0.13
	8/13/03	9:00	Srfc	<i>Protoperidium quinquecorne (B)</i>		Common	0.15
	8/13/03	9:00	Srfc	<i>Scrippsiella sp. (B)</i>		Common	0.63
	8/13/03	9:10	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	

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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	8/13/03	9:10	Srfc	"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
	8/13/03	9:10	Srfc	Chattonella cf. verruculosa (T)		Many	1.50
	8/13/03	9:10	Srfc	Chattonella subsalsa (T)		Common	0.75
	8/13/03	9:10	Srfc	Fibrocapsa japonica (T)		Present	
	8/13/03	9:10	Srfc	Gyrodinium uncatenum (B)		Present	
	8/13/03	9:10	Srfc	Heterocapsa rotundata (B)		Present	
	8/13/03	9:10	Srfc	Kryptoperidium foliaceum-2 (B)		Present	
	8/13/03	9:10	Srfc	Prorocentrum gracile		Common	
	8/13/03	9:10	Srfc	Protopteridinium quinquecorne (B)		Common	0.25
	8/13/03	9:10	Srfc	Scrippsiella sp. (B)		Common	0.75
	8/18/03	9:45	20 cm	Akashiwo sanguineum (B)		Present	
	8/18/03	9:45	20 cm	Chattonella cf. verruculosa (T)		Common	0.15
	8/18/03	9:45	20 cm	Chattonella subsalsa (T)		Present	
	8/18/03	9:45	20 cm	Heterocapsa rotundata (B)		Present	
	8/18/03	9:45	20 cm	Kryptoperidium foliaceum-2 (B)		Present	
	8/18/03	9:45	20 cm	Prorocentrum gracile		Present	
	8/18/03	9:45	20 cm	Prorocentrum sp. (T)		Present	
	8/18/03	9:45	20 cm	Scrippsiella sp. (B)		Common	0.38
	8/18/03	9:46	60 cm	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.50
	8/18/03	9:46	60 cm	Chattonella cf. verruculosa (T)		Many	1.50
	8/18/03	9:46	60 cm	Chattonella subsalsa (T)		Common	0.38
	8/18/03	9:46	60 cm	Fibrocapsa japonica (T)		Common	0.15
	8/18/03	9:46	60 cm	Gyrodinium instriatum (B)		Common	0.20
	8/18/03	9:46	60 cm	Heterocapsa rotundata (B)		Common	0.25
	8/18/03	9:46	60 cm	Kryptoperidium foliaceum-2 (B)		Common	0.25
	8/18/03	9:46	60 cm	Prorocentrum gracile		Present	
	8/18/03	9:46	60 cm	Protopteridinium quinquecorne (B)		Common	0.15
	8/18/03	9:46	60 cm	Scrippsiella sp. (B)		Common	0.75
	8/18/03	11:45	Surfc	Akashiwo sanguineum (B)		Present	
	8/18/03	11:45	Surfc	Heterocapsa rotundata (B)		Present	
	8/18/03	11:45	Surfc	Prorocentrum gracile		Common	0.50
	8/18/03	11:45	Surfc	Protopteridinium quinquecorne (B)		Present	
	8/18/03	11:45	Surfc	Scrippsiella sp. (B)		Common	0.15
	8/20/03	9:00	Surfc	"Gymnodinioid" sp. (S)	15 um Grn	Common	
	8/20/03	9:00	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.18
	8/20/03	9:00	Surfc	Akashiwo sanguineum (B)		Present	
	8/20/03	9:00	Surfc	Chaetoceros sp. (T)		Present	
	8/20/03	9:00	Surfc	Chattonella cf. verruculosa (T)		Common	0.75
	8/20/03	9:00	Surfc	Chattonella subsalsa (T)		Present	
	8/20/03	9:00	Surfc	Fibrocapsa japonica (T)		Present	
	8/20/03	9:00	Surfc	Gyrodinium instriatum (B)		Common	0.15

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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	8/20/03	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.24
	8/20/03	9:00	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/20/03	9:00	Surfc	<i>Prorocentrum gracile</i>		Common	0.35
	8/20/03	9:00	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.30
	8/20/03	9:55	20 cm	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Many	1.13
	8/20/03	9:55	20 cm	<i>Akashiwo sanguineum (B)</i>		Present	
	8/20/03	9:55	20 cm	<i>Chaetoceros sp. (T)</i>		Present	
	8/20/03	9:55	20 cm	<i>Chattonella cf. verruculosa (T)</i>		Many	1.50
	8/20/03	9:55	20 cm	<i>Chattonella subsalsa (T)</i>		Present	
	8/20/03	9:55	20 cm	<i>Fibrocapsa japonica (T)</i>		Common	0.15
	8/20/03	9:55	20 cm	<i>Gyrodinium instriatum (B)</i>		Present	
	8/20/03	9:55	20 cm	<i>Heterocapsa rotundata (B)</i>		Common	0.25
	8/20/03	9:55	20 cm	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.15
	8/20/03	9:55	20 cm	<i>Prorocentrum gracile</i>		Common	0.25
	8/20/03	9:55	20 cm	<i>Prorocentrum sp. (T)</i>		Present	
	8/20/03	9:55	20 cm	<i>Protoberidinium quinquecorne (B)</i>		Present	
	8/20/03	9:55	20 cm	<i>Scrippsiella sp. (B)</i>		Common	0.50
	8/20/03	10:00	60 cm	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.50
	8/20/03	10:00	60 cm	<i>Akashiwo sanguineum (B)</i>		Present	
	8/20/03	10:00	60 cm	<i>Amphidinium sp. (T)</i>		Present	
	8/20/03	10:00	60 cm	<i>Chaetoceros sp. (T)</i>		Present	
	8/20/03	10:00	60 cm	<i>Chattonella cf. verruculosa (T)</i>		Common	0.75
	8/20/03	10:00	60 cm	<i>Chattonella subsalsa (T)</i>		Present	
	8/20/03	10:00	60 cm	<i>Fibrocapsa japonica (T)</i>		Common	0.15
	8/20/03	10:00	60 cm	<i>Gyrodinium instriatum (B)</i>		Present	
	8/20/03	10:00	60 cm	<i>Heterocapsa rotundata (B)</i>		Common	0.10
	8/20/03	10:00	60 cm	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.15
	8/20/03	10:00	60 cm	<i>Prorocentrum gracile</i>		Common	0.20
	8/20/03	10:00	60 cm	<i>Protoberidinium quinquecorne (B)</i>		Common	0.50
	8/20/03	10:00	60 cm	<i>Scrippsiella sp. (B)</i>		Common	0.63
<b>Lewes - Rehoboth Canal</b>							
RB45: Lewes-Rehoboth Canal - Rehoboth							
	8/11/03	9:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<b>Little Assawoman Bay</b>							
LA2W: DNREC site in the Little Assawoman Bay; whole water column sample							
	8/12/03	14:05	WWC	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/12/03	14:05	WWC	<i>Chattonella cf. verruculosa (T)</i>		Present	0.08
LA41: Coastal Kayaks, knee deep wading sample							
	8/13/03	10:06	Srhc	<i>Chattonella cf. verruculosa (T)</i>		Present	
LA42: Narrows Beach, off of Rt. 1 south of South Bethany knee deep wading							
	8/13/03	10:23	Srhc		No HABs found		
<u>Dirickson Creek</u>							

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially  
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<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	8/11/03	8:55	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.25
	8/11/03	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.15
	8/11/03	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	
	8/11/03	8:55	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	8/12/03	8:55	Srfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/12/03	8:55	Srfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/12/03	8:55	Srfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/12/03	8:55	Srfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	8/18/03	10:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.15
	8/18/03	10:55	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/18/03	10:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.25
	8/18/03	10:55	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/18/03	10:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Many	2.20
LA6S: DNREC site downstream from bridge at road 381; surface sample							
	8/12/03	11:10	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	8/12/03	11:10	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/12/03	11:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.13
	8/12/03	11:10	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.75
	8/12/03	11:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/12/03	11:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/12/03	11:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.15
	8/12/03	11:10	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.25
	8/12/03	11:10	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	
<u>Jefferson Creek</u>							
JC08B: SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only; by boat							
	8/19/03	14:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/19/03	14:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.78
	8/19/03	14:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/19/03	14:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	14:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/19/03	14:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
SB03B: Anchorage Canal at elbow							
	8/19/03	14:10	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/19/03	14:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Many	2.00
	8/19/03	14:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
SB10E: SB: Russell Canal east dead end							
	8/13/03	9:35	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
	8/13/03	9:35	Srfc	<i>Chattonella cf. verruculosa (T)</i>		Many	8.80
	8/13/03	9:35	Srfc	<i>Chattonella subsalsa (T)</i>		Present	0.08

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially  
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Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10E: SB: Russell Canal east dead end							
	8/13/03	9:35	Srfc	<i>Gyrodinium instriatum</i> (B)		Common	
	8/13/03	9:35	Srfc	<i>Heterocapsa rotundata</i> (B)		Common	
	8/13/03	9:35	Srfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.15
	8/13/03	9:35	Srfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/13/03	9:35	Srfc	<i>Scrippsiella sp.</i> (B)		Present	
	8/20/03	9:20	Surfc	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	0.30
	8/20/03	9:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	5.00
	8/20/03	9:20	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/20/03	9:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/20/03	9:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.15
	8/20/03	9:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.38
SB10W: SB: Russell Canal west dead end							
	8/12/03	10:25	Srfc	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	
	8/12/03	10:25	Srfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/12/03	10:25	Srfc	<i>Chattonella cf. verruculosa</i> (T)		Abundant	17.60
	8/12/03	10:25	Srfc	<i>Chattonella subsalsa</i> (T)		Many	2.20
	8/12/03	10:25	Srfc	<i>Gyrodinium instriatum</i> (B)		Common	
	8/12/03	10:25	Srfc	<i>Heterocapsa rotundata</i> (B)		Present	
	8/12/03	10:25	Srfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/12/03	10:25	Srfc	<i>Kryptoperidium foliaceum-2</i> (B)		Present	
	8/12/03	10:25	Srfc	<i>Scrippsiella sp.</i> (B)		Present	
	8/13/03	9:25	Srfc	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	
	8/13/03	9:25	Srfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/13/03	9:25	Srfc	<i>Chattonella cf. verruculosa</i> (T)		Abundant	11.00
	8/13/03	9:25	Srfc	<i>Chattonella subsalsa</i> (T)		Common	0.75
	8/13/03	9:25	Srfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/13/03	9:25	Srfc	<i>Heterocapsa rotundata</i> (B)		Common	
	8/13/03	9:25	Srfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.20
	8/13/03	9:25	Srfc	<i>Protoperidinium quinquecorne</i> (B)		Common	
	8/13/03	9:25	Srfc	<i>Scrippsiella sp.</i> (B)		Present	
	8/18/03	10:20	20 cm	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	0.20
	8/18/03	10:20	20 cm	<i>Chattonella cf. verruculosa</i> (T)		Common	0.50
	8/18/03	10:20	20 cm	<i>Fibrocapsa japonica</i> (T)		Present	
	8/18/03	10:20	20 cm	<i>Gyrodinium instriatum</i> (B)		Common	0.15
	8/18/03	10:20	20 cm	<i>Heterocapsa rotundata</i> (B)		Common	0.20
	8/18/03	10:20	20 cm	<i>Heterosigma akashiwo</i> . (T)		Common	0.13
	8/18/03	10:20	20 cm	<i>Kryptoperidium foliaceum-2</i> (B)		Present	
	8/18/03	10:20	20 cm	<i>Protoperidinium quinquecorne</i> (B)		Present	
	8/18/03	10:21	60 cm	" <i>Gymnodinoid</i> " sp. (S)	15-25 um Grn	Common	0.25
	8/18/03	10:21	60 cm	<i>Chattonella cf. verruculosa</i> (T)		Many	1.25
	8/18/03	10:21	60 cm	<i>Chattonella subsalsa</i> (T)		Present	
	8/18/03	10:21	60 cm	<i>Gyrodinium instriatum</i> (B)		Common	0.15

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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10W: SB: Russell Canal west dead end							
	8/18/03	10:21	60 cm	<i>Heterocapsa rotundata</i> (B)		Common	0.20
	8/18/03	10:21	60 cm	<i>Heterosigma akashiwo</i> . (T)		Common	0.20
	8/18/03	11:20	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.15
	8/18/03	11:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.17
	8/18/03	11:20	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	8/18/03	11:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/18/03	11:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.20
	8/18/03	11:20	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.25
	8/18/03	11:20	Surfc	<i>Kryptoperidium foliaceum-2</i> (B)		Present	
	8/18/03	11:20	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Present	
	8/20/03	9:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	1.20
	8/20/03	9:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	
	8/20/03	9:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	8/20/03	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.25
	8/20/03	9:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.20
	8/20/03	9:00	Surfc	<i>Kryptoperidium foliaceum-2</i> (B)		Present	
	8/20/03	10:20	20cm	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	8/20/03	10:20	20cm	<i>Chattonella cf. verruculosa</i> (T)		Common	0.28
	8/20/03	10:20	20cm	<i>Gyrodinium instriatum</i> (B)		Present	
	8/20/03	10:20	20cm	<i>Heterocapsa rotundata</i> (B)		Present	
	8/20/03	10:20	20cm	<i>Heterosigma akashiwo</i> . (T)		Common	0.25
	8/20/03	10:20	20cm	<i>Scrippsiella</i> sp. (B)		Present	
	8/20/03	10:25	60cm	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	8/20/03	10:25	60cm	<i>Akashiwo sanguineum</i> (B)		Present	
	8/20/03	10:25	60cm	<i>Chattonella cf. verruculosa</i> (T)		Common	0.63
	8/20/03	10:25	60cm	<i>Chattonella subsalsa</i> (T)		Present	
	8/20/03	10:25	60cm	<i>Heterosigma akashiwo</i> . (T)		Common	0.15
	8/20/03	10:25	60cm	<i>Protopteridinium quinquecorne</i> (B)		Present	
<u>Miller Creek</u>							
LA31: Double Bridges road bridge at Plantation Park							
	8/13/03	11:11	Srfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	
	8/13/03	11:11	Srfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.15
	8/13/03	11:11	Srfc	<i>Heterocapsa rotundata</i> (B)		Many	2.20
	8/13/03	11:11	Srfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	8/13/03	11:11	Srfc	<i>Kryptoperidium foliaceum-2</i> (B)		Common	0.88
LA55: DNREC site near Sassafras landing; surface sample							
	8/12/03	12:45	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	8/12/03	12:45	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	8/12/03	12:45	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.30
	8/12/03	12:45	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.25
	8/12/03	12:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	

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**Delaware Inland Bays Citizen Monitoring Program**



Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Little Assawoman Bay</b>							
<u>Miller Creek</u>							
LA55: DNREC site near Sassafras landing; surface sample							
	8/12/03	12:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.15
<u>Williams Creek</u>							
LA21: Williams Creek tributary, bridge on Rd 364a							
	8/12/03	9:10	Srfc		No HABs found		
<b>Rehoboth Bay</b>							
ML: Massey's Landing							
	8/11/03	8:45	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/11/03	8:45	Srfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	8/11/03	8:45	Srfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB50: Delaware Seashore State Park at New Road; knee deep wading sample.							
	8/11/03	10:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15 um Grn	Present	
	8/11/03	10:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/11/03	10:45	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/11/03	10:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/11/03	10:45	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
<u>Arnell Creek</u>							
AC2S: DNREC Site, Arnell Creek, surface sample							
	8/19/03	12:39	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/19/03	12:39	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/19/03	12:39	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.20
	8/19/03	12:39	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	12:39	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at bulkhead							
	8/13/03	13:53	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.25
	8/13/03	13:53	Srfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/13/03	13:53	Srfc	<i>Chaetoceros sp. (T)</i>		Present	
	8/13/03	13:53	Srfc	<i>Chattonella subsalsa (T)</i>		Common	0.15
	8/13/03	13:53	Srfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/20/03	9:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	8/20/03	9:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/20/03	9:35	Surfc	<i>Chaetoceros sp. (T)</i>		Common	
	8/20/03	9:35	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	8/20/03	9:35	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/20/03	9:35	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
RB47: Bald Eagle Creek							
	8/10/03	15:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/10/03	15:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/10/03	15:45	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/10/03	15:45	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	
	8/10/03	15:45	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	

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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Rehoboth Bay</b>							
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	8/11/03	11:42	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/11/03	11:42	Surfc	<i>"Gymnodinioid" sp. (S)</i>	20 um Clr	Present	
	8/11/03	11:42	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
RB06: Guinea Creek (Winding Creek Village)							
	8/11/03	7:15	Srfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/11/03	7:15	Srfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/11/03	7:15	Srfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/11/03	7:15	Srfc	<i>Scrippsiella sp. (B)</i>		Present	
RB06A: Guinea Creek @ Rd 298 Bridge							
	8/11/03	11:58	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/11/03	11:58	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.75
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	8/10/03	7:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
	8/10/03	7:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	8/10/03	7:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.15
	8/10/03	7:45	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	8/10/03	7:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/10/03	7:45	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/10/03	7:45	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
RB40: Burton Prong							
	8/11/03	7:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	
	8/11/03	7:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	8/11/03	7:30	Surfc	<i>Gyrodinium uncatenum (B)</i>		Present	
	8/11/03	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/11/03	7:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/11/03	12:44	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.50
	8/11/03	12:44	Surfc	<i>Gyrodinium uncatenum (B)</i>		Present	
	8/11/03	12:44	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	2.00
	8/11/03	12:44	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.75
	8/11/03	12:44	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.25
	8/11/03	12:44	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	8/15/03	9:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.88
	8/15/03	9:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/15/03	9:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Abundant	44.00
	8/15/03	9:30	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.25
	8/15/03	10:00	20 cm	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	8/15/03	10:00	20 cm	<i>Gyrodinium instriatum (B)</i>		Common	0.15
	8/15/03	10:00	20 cm	<i>Heterocapsa rotundata (B)</i>		Present	
	8/15/03	10:00	20 cm	<i>Heterosigma akashiwo. (T)</i>		Many	2.20

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**Delaware Inland Bays Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
<b>Rehoboth Bay</b>							
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	8/15/03	10:00	20 cm	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.13
	8/15/03	10:00	20 cm	<i>Protopteridinium quinquecorne (B)</i>		Present	
	8/15/03	10:05	60 cm	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.25
	8/15/03	10:05	60 cm	<i>Gyrodinium instriatum (B)</i>		Many	3.00
	8/15/03	10:05	60 cm	<i>Heterocapsa rotundata (B)</i>		Common	
	8/15/03	10:05	60 cm	<i>Heterosigma akashiwo. (T)</i>		Abundant	13.20
	8/15/03	10:05	60 cm	<i>Kryptoperidium foliaceum-2 (B)</i>		Common	0.15
	8/19/03	9:55	SbSrf	<i>Gyrodinium instriatum (B)</i>		Many	3.00
	8/19/03	9:55	SbSrf	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/19/03	9:55	SbSrf	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/21/03	10:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	8/21/03	10:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.50
	8/21/03	10:00	Surfc	<i>Kryptoperidium foliaceum-2 (B)</i>		Present	
	8/21/03	10:00	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	
RLC1W: shellfish site, mouth of Love Creek.							
	8/19/03	12:26	WWC	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	8/19/03	12:26	WWC	<i>Akashiwo sanguineum (B)</i>		Present	
	8/19/03	12:26	WWC	<i>Chaetoceros sp. (T)</i>		Present	
	8/19/03	12:26	WWC	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	12:26	WWC	<i>Heterosigma akashiwo. (T)</i>		Present	
	8/19/03	12:26	WWC	<i>Prorocentrum gracile</i>		Present	
	8/19/03	12:26	WWC	<i>Scrippsiella sp. (B)</i>		Present	
RLC2S: DNREC site, upper Love Creek							
	8/19/03	13:10	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.20
	8/19/03	13:10	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.00
	8/19/03	13:10	Surfc	<i>Gyrodinium uncatenum (B)</i>		Present	
	8/19/03	13:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	8/19/03	13:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.15
	8/19/03	13:10	Surfc	<i>Protopteridinium quinquecorne (B)</i>		Present	

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially  
MCL - Million Cells per Liter. Abundance Levels: Not Found: Looked for, but no cells found; Present: < 0.1 MCL;  
Common: 0.1 - 1 MCL; Many: 1 - 10 MCL; Abundant: 10 - 100 MCL; Very Abundant: > 100 MCL.

**Delaware Inland Bays Citizen Monitoring Program**