

Harmful Algae Report

All data between 6/24/2005 and 7/14/2005

Delaware Inland Bays Citizen Monitor Program

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Assawoman Bay							
<u>Roy Creek</u>							
BA01: Keenwick on Bay, Roy Creek							
	7/12/2005	8:37	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/12/2005	8:37	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2005	8:37	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/12/2005	8:37	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
Assawoman Canal							
IR50: Assawoman Canal at N end, marina dock							
	7/12/2005	10:04	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	7/12/2005	10:04	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	7/12/2005	10:04	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/12/2005	10:04	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/12/2005	10:04	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/12/2005	10:04	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
LA10: Assawoman Canal @ Kent Ave Bridge							
	6/26/2005	8:15	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/26/2005	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/3/2005	8:10	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	7/3/2005	8:10	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.11
	7/3/2005	8:10	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.28
	7/3/2005	8:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/3/2005	8:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/11/2005	8:46	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	7/11/2005	8:46	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	7/5/2005	9:24	Surfc	<i>Chattonella subsalsa</i> (T)		Many	3.28
	7/5/2005	9:24	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.18
	7/5/2005	9:24	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/5/2005	9:24	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Common	0.46
	7/11/2005	8:59	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/11/2005	8:59	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Present	
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	7/12/2005	10:28	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	2.40
	7/12/2005	10:28	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.30
	7/12/2005	10:28	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/12/2005	10:28	Surfc	<i>Protopteridinium quinquecorne</i> (B)		Common	0.96
Broadkill River							
BR01: Broadkill river @ PEL dock.							

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.

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

15-Jul-05

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

Page 1 of 11

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	7/12/2005	14:25	Net	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/12/2005	14:25	Net	<i>Dinophysis acuminata (T)</i>		Present	
	7/12/2005	14:25	Net	<i>Prorocentrum lima (T)</i>		Present	
	7/12/2005	14:25	Net	<i>Prorocentrum minimum (T)</i>		Present	
	7/12/2005	14:25	Net	<i>Rhizosolenia spp. (B)</i>		Present	
	7/12/2005	14:29	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/12/2005	14:29	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.20
	7/12/2005	14:29	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	7/13/2005	12:55	Surfc	<i>Anabaena (T)</i>		Many	
	7/13/2005	12:55	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Many	2.20
	7/13/2005	12:55	Surfc	<i>Microcystis (T)</i>		Many	
Delaware Bay							
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	7/12/2005	10:11	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/12/2005	10:11	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	7/12/2005	10:22	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
Indian River							
IR04: Warwick Cove							
	6/27/2005	10:11	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
	6/27/2005	10:11	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
	6/27/2005	10:11	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/27/2005	10:11	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/11/2005	9:16	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/11/2005	9:16	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/11/2005	9:16	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
IR07: Holt's Landing State Park							
	7/12/2005	9:23	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.13
	7/12/2005	9:23	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR11: Big Ditch Point							
	7/11/2005	10:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/11/2005	10:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
IR20: Bay Colony							
	7/11/2005	8:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.13
IR21: Inlet to Boat House Pond							
	6/28/2005	9:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/28/2005	9:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/28/2005	9:20	Surfc	<i>Protopeperidinium quinquecorne (B)</i>		Present	
	7/11/2005	8:15	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
IR36B: James Farm, Pasture Point							

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Indian River							
IR36B: James Farm, Pasture Point							
	6/29/2005	8:05	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/29/2005	8:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/29/2005	8:05	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/11/2005	8:30	Surfc	"Gymnodinoid" sp. (S)	15-25 um Grn	Present	
	7/11/2005	8:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/11/2005	8:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/11/2005	8:30	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/11/2005	8:30	Surfc	<i>Protoberidinium quinquecorne</i> (B)		Present	
IR5S: DNREC site, Upper Indian River							
	6/29/2005	14:15	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.13
	7/7/2005	11:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/14/2005	12:30	Surfc	"Gymnodinoid" sp. (S)	15-25 um Grn	Present	
	7/14/2005	12:30	Surfc	<i>Anabaena</i> (T)		Present	
	7/14/2005	12:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	4.30
RWPMVII: Holt's Landing Boat Ramp							
Day of fish kill*	7/11/2005	11:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/11/2005	11:00	Surfc	<i>Protoberidinium quinquecorne</i> (B)		Present	
Day after fish kill*	7/12/2005	8:57	Surfc	"Gymnodinoid" sp. (S)	15-25 um Grn	Present	
	7/12/2005	8:57	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2005	8:57	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.44
	7/12/2005	8:57	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	1.72
	7/12/2005	8:57	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
<u>Tuckahoe Acres Marina</u>							
IR08: Tuckahoe Acres Marina boat ramp							
Day after fish kill*	7/12/2005	8:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/12/2005	8:35	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	13.80
	7/12/2005	8:35	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/12/2005	8:35	Surfc	<i>Protoberidinium quinquecorne</i> (B)		Present	
	7/14/2005	11:00	Surfc	"Gymnodinoid" sp. (S)	15-25 um Grn	Present	
	7/14/2005	11:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	17.60
	7/14/2005	11:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/14/2005	11:00	Surfc	<i>Protoberidinium quinquecorne</i> (B)		Present	
<u>White Creek</u>							
IR23: Bethany Marina							
	6/29/2005	7:00	Surfc	"Gymnodinoid" sp. (S)	15-25 um Grn	Present	
	6/29/2005	7:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/29/2005	7:00	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	6/29/2005	7:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	6/29/2005	7:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.22
	6/29/2005	7:00	Surfc	<i>Protoberidinium quinquecorne</i> (B)		Present	
	6/29/2005	7:00	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	7/11/2005	7:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.16

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Indian River							
<u>White Creek</u>							
IR23: Bethany Marina							
	7/11/2005	7:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/11/2005	7:10	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	7/11/2005	7:10	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR32: Holly Terrace Acres							
	6/27/2005	9:21	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/27/2005	9:21	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/27/2005	9:21	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/27/2005	9:21	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.10
	6/27/2005	9:21	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/27/2005	9:21	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	6/27/2005	9:21	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	6/27/2005	9:21	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	6/30/2005	14:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.55
	6/30/2005	14:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.13
	6/30/2005	14:00	Surfc	<i>Chattonella subsalsa (T)</i>		Many	2.45
	6/30/2005	14:00	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	1.03
	6/30/2005	14:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/30/2005	14:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/30/2005	14:00	Surfc	<i>Prorocentrum minimum (T)</i>		Common	0.13
	6/30/2005	14:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.82
	6/30/2005	14:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	7/5/2005	8:48	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
	7/5/2005	8:48	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.50
	7/5/2005	8:48	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.57
	7/5/2005	8:48	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.93
	7/5/2005	8:48	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/5/2005	8:48	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	7/5/2005	8:48	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/5/2005	8:48	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	7/7/2005	13:43	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.22
	7/7/2005	13:43	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/7/2005	13:43	Surfc	<i>Chattonella subsalsa (T)</i>		Many	1.52
	7/7/2005	13:43	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/7/2005	13:43	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.16
	7/7/2005	13:43	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/7/2005	13:43	Surfc	<i>Kryptoperidinium foliaceum-1 (B)</i>		Present	
	7/7/2005	13:43	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/7/2005	13:43	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
	7/11/2005	10:15	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/11/2005	10:15	Surfc	<i>Chattonella subsalsa (T)</i>		Many	7.30
	7/11/2005	10:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	

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Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	7/11/2005	10:15	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/11/2005	10:15	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	7/11/2005	10:15	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
IR59: White Creek - west prong near Food Lion							
	7/12/2005	9:41	Surfc		No HABs found		
IR60A: 4 Cristy Lane, Ocean View; E Branch of White Creek							
	7/12/2005	9:56	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.30
	7/12/2005	9:56	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.10
	7/12/2005	9:56	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	7/12/2005	9:56	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.28
Lewes - Rehoboth Canal							
RB02: Lewes - Rehoboth Canal at Lewes							
	6/28/2005	8:48	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/28/2005	8:48	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	6/29/2005	12:12	Net	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/29/2005	12:12	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	7/5/2005	8:40	Net	<i>Ditylum sp. (T)</i>		Present	
	7/5/2005	8:40	Net	<i>Heterocapsa rotundata (B)</i>		Present	
	7/5/2005	8:40	Net	<i>Prorocentrum gracile (B)</i>		Present	
	7/5/2005	8:40	Net	<i>Rhizolenia spp. (B)</i>		Present	
	7/5/2005	8:40	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/5/2005	8:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/5/2005	8:40	Surfc	<i>Prorocentrum lima (T)</i>		Present	
	7/12/2005	8:45	Surfc		No HABs found		
	7/12/2005	8:50	Net	<i>Chaetoceros sp. (T)</i>		Present	
	7/12/2005	8:50	Net	<i>Fibrocapsa japonica (T)</i>		Present	
	7/12/2005	8:50	Net	<i>Heterocapsa rotundata (B)</i>		Present	
Little Assawoman Bay							
LA15B: Red channel marker #12							
	6/27/2005	9:02	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	6/27/2005	9:02	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
LA35B: Red Channel marker #28, across from Miller Creek							
	6/27/2005	8:42	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/27/2005	8:42	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
LA42B: Narrows, South of state beach at point							
	6/27/2005	8:47	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
LA45: Fenwick Island Bayside							
	7/12/2005	9:00	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/12/2005	9:00	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/12/2005	9:00	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/12/2005	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/12/2005	9:00	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	

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Little Assawoman Bay							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	7/11/2005	8:25	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/11/2005	8:25	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/11/2005	8:25	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.14
	7/11/2005	8:25	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/11/2005	8:25	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/11/2005	8:25	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	7/11/2005	9:05	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	7/11/2005	8:26	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.19
<u>Jefferson Creek</u>							
SB10E: SB: Russell Canal east dead end							
	6/27/2005	8:37	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
	6/27/2005	8:37	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.16
	6/27/2005	8:37	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.10
	6/27/2005	8:37	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/27/2005	8:37	Surfc	<i>Proto-peridinium quinquecorne (B)</i>		Common	0.12
	7/5/2005	8:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/5/2005	8:30	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/5/2005	8:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Abundant	21.60
	7/5/2005	8:30	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/5/2005	8:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/5/2005	8:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/13/2005	8:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/13/2005	8:20	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/13/2005	8:20	Surfc	<i>Proto-peridinium quinquecorne (B)</i>		Present	
SB10W: SB: Russell Canal west dead end							
	6/27/2005	8:55	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	6/27/2005	8:55	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	6/27/2005	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/27/2005	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	6/27/2005	8:55	Surfc	<i>Proto-peridinium quinquecorne (B)</i>		Common	0.51
	6/30/2005	14:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.12
	6/30/2005	14:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Abundant	12.80
	6/30/2005	14:30	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.21
	6/30/2005	14:30	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/30/2005	14:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Many	9.13
	6/30/2005	14:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	6/30/2005	14:30	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	6/30/2005	14:30	Surfc	<i>Proto-peridinium quinquecorne (B)</i>		Present	
	6/30/2005	14:30	Surfc	<i>Scrippsiella sp. (B)</i>		Present	

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.
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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10W: SB: Russell Canal west dead end							
	7/5/2005	8:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/5/2005	8:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.43
	7/5/2005	8:50	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/5/2005	8:50	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/5/2005	8:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/5/2005	8:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/5/2005	8:50	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/7/2005	13:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/7/2005	13:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.90
	7/7/2005	13:50	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.13
	7/7/2005	13:50	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/7/2005	13:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/7/2005	13:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/7/2005	13:50	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	7/7/2005	13:50	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	7/13/2005	8:28	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/13/2005	8:28	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/13/2005	8:28	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	7/13/2005	8:28	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Miller Creek</u>							
LA33B: Camp Barnes dock - by boat							
	6/27/2005	8:31	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	6/27/2005	8:31	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	6/27/2005	8:31	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
Rehoboth Bay							
ML: Massey's Landing							
	7/11/2005	10:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
RB07: West Bay Park							
	7/12/2005	8:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
	7/12/2005	8:35	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/12/2005	8:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.15
	7/12/2005	8:35	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.47
	7/12/2005	8:35	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
RB67B: Rehoboth Bay, Buoy #7A							
	7/5/2005	11:30	Surfc	<i>Chaetoceros sp. (T)</i>		Present	
RB68B: Rehoboth Bay, Buoy # 3							
	7/5/2005	11:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	7/5/2005	11:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Arnell Creek</u>							
RB01A: Lagoon (100m NE of RB-01)							
Day of fish kill*	7/7/2005	10:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.46

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.

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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
Rehoboth Bay							
<u>Arnell Creek</u>							
RB01A: Lagoon (100m NE of RB-01)							
Day of fish kill							
	7/7/2005	10:45	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/7/2005	10:50	Bttm	<i>Chattonella subsalsa</i> (T)		Present	
	7/7/2005	10:50	Bttm	<i>Gyrodinium instriatum</i> (B)		Common	0.24
	7/7/2005	10:50	Bttm	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/7/2005	10:50	Bttm	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/7/2005	11:40	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.74
	7/7/2005	11:40	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/7/2005	11:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/7/2005	11:40	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	6/27/2005	12:02	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.10
	6/27/2005	12:02	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.10
	6/27/2005	12:02	Surfc	<i>Heterosigma akashiwo</i> . (T)		Common	0.78
	6/27/2005	12:02	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/27/2005	12:02	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
	7/5/2005	9:35	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	7/5/2005	9:35	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	0.05
	7/5/2005	9:35	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.72
	7/5/2005	9:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.47
	7/5/2005	9:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/5/2005	9:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/5/2005	9:35	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	7/5/2005	9:40	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	7/5/2005	9:40	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/5/2005	9:40	Surfc	<i>Chattonella subsalsa</i> (T)		Abundant	16.80
	7/5/2005	9:40	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.95
	7/5/2005	9:40	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/5/2005	9:40	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	7/5/2005	9:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
RB69: Torquay Canal DNREC site. TC1							
	6/29/2005	16:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.13
	6/29/2005	16:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.10
	6/29/2005	16:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.68
	6/29/2005	16:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.63
	6/29/2005	16:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.10
	6/29/2005	16:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	6/29/2005	16:00	Surfc	<i>Scrippsiella sp.</i> (B)		Common	0.13
	7/7/2005	14:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Common	0.10
	7/7/2005	14:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	

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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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Rehoboth Bay							
<u>Bald Eagle Creek</u>							
RB69: Torquay Canal DNREC site. TC1							
	7/7/2005	14:00	Surfc	<i>Chattonella subsalsa</i> (T)		Many	1.04
	7/7/2005	14:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/7/2005	14:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/7/2005	14:00	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	7/14/2005	13:45	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.21
	7/14/2005	13:45	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.48
	7/14/2005	13:45	Surfc	<i>Chattonella subsalsa</i> (T)		Many	2.93
	7/14/2005	13:45	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/14/2005	13:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/14/2005	13:45	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/14/2005	13:45	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	7/11/2005	11:17	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	7/11/2005	11:17	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/11/2005	11:17	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	6/27/2005	10:58	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	6/27/2005	10:58	Surfc	(Unknown) sp. (B)	10-15 um Grn trdrp	Very Abundant	129.00
	6/27/2005	10:58	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	6/27/2005	10:58	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	6/27/2005	10:58	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/11/2005	9:00	Surfc		No HABs found		
RB06A: Guinea Creek @ Rd 298 Bridge							
	7/11/2005	12:35	Surfc		No HABs found		
RB60: Community Dock at Creek's End							
	7/4/2005	11:31	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	7/4/2005	11:31	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/4/2005	11:31	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/4/2005	11:31	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/11/2005	11:30	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/11/2005	11:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/11/2005	11:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/11/2005	11:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	7/11/2005	10:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/11/2005	10:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/11/2005	10:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							

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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
Rehoboth Bay							
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	6/27/2005	11:28	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.10
	6/27/2005	11:28	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	1.62
	6/27/2005	11:28	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	1.50
	6/27/2005	11:28	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Present	
	6/27/2005	11:28	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/27/2005	11:40	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.10
	6/27/2005	11:40	Surfc	<i>Gyrodinium instriatum</i> (B)		Abundant	19.20
	6/27/2005	11:40	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	10.50
	6/27/2005	11:40	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Present	
	6/27/2005	11:40	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/27/2005	11:40	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	6/29/2005	19:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.48
	6/29/2005	19:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	1.31
	6/29/2005	19:30	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/29/2005	19:30	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
	6/30/2005	7:50	.2 m	<i>Gyrodinium instriatum</i> (B)		Common	0.15
	6/30/2005	7:50	.2 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	29.50
	6/30/2005	7:55	.6 m	<i>Gyrodinium instriatum</i> (B)		Present	
	6/30/2005	7:55	.6 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	30.10
	6/30/2005	10:51	.2 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	61.60
	6/30/2005	10:51	.2 m	<i>Protoperidinium quinquecorne</i> (B)		Present	
	6/30/2005	10:55	.6 m	<i>Gyrodinium instriatum</i> (B)		Present	
	6/30/2005	10:55	.6 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	45.80
	6/30/2005	13:48	.2 m	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	6/30/2005	13:48	.2 m	<i>Heterosigma akashiwo</i> . (T)		Many	8.38
	6/30/2005	13:53	.5 m	<i>Heterosigma akashiwo</i> . (T)		Many	6.16
	6/30/2005	16:47	.2 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	82.10
	6/30/2005	16:51	.6 m	<i>Heterosigma akashiwo</i> . (T)		Abundant	22.00
	7/7/2005	14:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	2.39
	7/7/2005	14:35	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/7/2005	14:35	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Common	0.40
	7/7/2005	14:35	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.56
**Day before fish kill*	7/11/2005	12:05	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	1.96
**upstream @ RLC2*	7/11/2005	12:05	Surfc	<i>Heterosigma akashiwo</i> . (T)		Abundant	32.40
	7/11/2005	12:05	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
RLC1W: shellfish site, mouth of Love Creek.							
	7/5/2005	12:00	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	7/5/2005	12:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.71
RLC2S: DNREC site, upper Love Creek							
	6/29/2005	15:15	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	6/29/2005	15:15	Surfc	<i>Heterosigma akashiwo</i> . (T)		Very Abundant	246.00
	6/29/2005	15:15	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	

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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
Rehoboth Bay							
<u>Love Creek</u>							
RLC2S: DNREC site, upper Love Creek							
	7/7/2005	12:30	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	7/7/2005	12:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.66
	7/7/2005	12:30	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	7/7/2005	12:30	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/14/2005	13:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.62
	7/14/2005	13:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Many	4.53
	7/14/2005	13:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	7/14/2005	13:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.32

Name subscripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.
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