

Harmful Algae Report

All data from 9/3/2004

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							
	9/14/2004	9:05	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/14/2004	9:05	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
BA02: Keenwick Sound, entrance to canal system							
	9/14/2004	8:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/14/2004	8:50	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/14/2004	8:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
Assawoman Canal							
IR50: Assawoman Canal at N end, marina dock							
	9/9/2004	9:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/9/2004	9:50	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/9/2004	9:50	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.11
	9/9/2004	9:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2004	9:50	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
LA10: BB: Assawoman Canal @ Kent Ave Bridge							
	9/7/2004	8:06	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/7/2004	8:06	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
	9/12/2004	8:10	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/12/2004	8:10	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/12/2004	8:10	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.12
	9/12/2004	8:10	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/12/2004	8:10	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	9/7/2004	10:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/7/2004	10:20	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.69
	9/7/2004	10:20	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/7/2004	10:20	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.40
	9/7/2004	10:20	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Common	0.38
IR64: Bethany Beach canal off dead end at 3rd street East of Evans Rd.							
	9/9/2004	9:36	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/9/2004	9:36	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.85
	9/9/2004	9:36	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.15
	9/9/2004	9:36	Surfc	<i>Protooperidinium quinquecorne (B)</i>		Present	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	9/3/2004	17:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/3/2004	17:20	Surfc	<i>Chaetoceros sp. (T)</i>		Present	

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

Water Body Tributary Site	Date	Time	Smpl Dpth	Name	Comment if ID uncertain	Abundance	MCL
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	9/3/2004	17:20	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/3/2004	17:20	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/10/2004	14:45	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
Indian River							
IR04: Warwick Cove							
	9/13/2004	9:12	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/13/2004	9:12	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR07: Holt's Landing State Park							
	9/12/2004	13:24	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR11: Big Ditch Point							
	9/13/2004	8:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/13/2004	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR20: Bay Colony							
	9/13/2004	8:15	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/13/2004	8:15	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR36B: James Farm, Pasture Point							
	9/14/2004	8:45	Surfc	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Present	
<u>White Creek</u>							
IR23: Bethany Marina							
	9/14/2004	8:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/14/2004	8:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/14/2004	8:00	Surfc	<i>Heterosigma akashiwo</i> (T)		Common	0.10
	9/14/2004	8:00	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Present	
	9/14/2004	8:00	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	9/14/2004	8:00	Surfc	<i>Scrippsiella sp. (B)</i>		Present	
IR32: Holly Terrace Acres							
	9/3/2004	9:20	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.17
	9/3/2004	9:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.88
	9/3/2004	9:20	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	9/3/2004	9:20	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/3/2004	9:20	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/3/2004	9:20	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.68
	9/3/2004	9:25	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/3/2004	9:25	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/3/2004	9:25	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/3/2004	9:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	4.75
	9/3/2004	9:25	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.35
	9/3/2004	9:25	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/3/2004	9:25	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/3/2004	9:25	Surfc	<i>Scrippsiella sp. (B)</i>		Many	1.52
	9/7/2004	9:30	Surfc	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Common	
	9/7/2004	9:30	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/7/2004	9:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	1.92

Name subsripts: (B) - nontoxic bloom former; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell.
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Indian River							
<u>White Creek</u>							
IR32: Holly Terrace Acres							
	9/7/2004	9:30	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/7/2004	9:30	Surfc	<i>Prorocentrum gracile (B)</i>		Present	
	9/7/2004	9:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	9/7/2004	9:30	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/7/2004	9:30	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.90
	9/7/2004	9:35	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/7/2004	9:35	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/7/2004	9:35	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/7/2004	9:35	Surfc	<i>Gyrodinium instriatum (B)</i>		Many	3.00
	9/7/2004	9:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/7/2004	9:35	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.13
	9/7/2004	9:35	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	9/7/2004	9:35	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/7/2004	9:35	Surfc	<i>Scrippsiella sp. (B)</i>		Many	1.23
	9/7/2004	9:40	.6 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/7/2004	9:40	.6 m	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Common	
	9/7/2004	9:40	.6 m	<i>Chattonella cf. verruculosa (T)</i>		Common	0.15
	9/7/2004	9:40	.6 m	<i>Chattonella subsalsa (T)</i>		Present	
	9/7/2004	9:40	.6 m	<i>Gyrodinium instriatum (B)</i>		Common	0.85
	9/7/2004	9:40	.6 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/7/2004	9:40	.6 m	<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.10
	9/7/2004	9:40	.6 m	<i>Prorocentrum minimum (T)</i>		Present	
	9/7/2004	9:40	.6 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/7/2004	9:40	.6 m	<i>Scrippsiella sp. (B)</i>		Many	1.33
	9/9/2004	9:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	9/9/2004	9:45	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/9/2004	9:45	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/9/2004	9:45	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/9/2004	9:45	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.26
	9/9/2004	9:45	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.35
	9/9/2004	9:45	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	9/9/2004	9:45	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/9/2004	9:45	Surfc	<i>Scrippsiella sp. (B)</i>		Common	0.16
	9/9/2004	9:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/9/2004	9:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.43
	9/9/2004	9:50	Surfc	<i>Chattonella subsalsa (T)</i>		Many	3.78
	9/9/2004	9:50	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	9/9/2004	9:50	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.52
	9/9/2004	9:50	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.15
	9/9/2004	9:50	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/9/2004	9:50	Surfc	<i>Prorocentrum gracile (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							
	9/9/2004	9:50	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.19
	9/9/2004	9:50	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.11
	9/9/2004	9:50	Surfc	<i>Scrippsiella</i> sp. (B)		Common	0.66
	9/9/2004	9:55	.6 m	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/9/2004	9:55	.6 m	<i>Chattonella cf. verruculosa</i> (T)		Present	
	9/9/2004	9:55	.6 m	<i>Chattonella subsalsa</i> (T)		Common	0.20
	9/9/2004	9:55	.6 m	<i>Gyrodinium instriatum</i> (B)		Common	0.11
	9/9/2004	9:55	.6 m	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/9/2004	9:55	.6 m	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	9/9/2004	9:55	.6 m	<i>Protoperidinium quinquecorne</i> (B)		Common	0.17
	9/9/2004	9:55	.6 m	<i>Scrippsiella</i> sp. (B)		Common	0.22
	9/13/2004	9:35	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/13/2004	9:35	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.10
	9/13/2004	9:35	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/13/2004	9:35	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/13/2004	9:35	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
WC-13: Holly Terrace Acres Canal, DNREC site							
	9/8/2004	13:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/8/2004	13:00	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	9/8/2004	13:00	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.49
	9/8/2004	13:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Many	1.70
	9/8/2004	13:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/8/2004	13:00	Surfc	<i>Kryptoperidinium foliaceum-1</i> (B)		Common	0.10
	9/8/2004	13:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.19
	9/8/2004	13:00	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	9/8/2004	13:00	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	9/8/2004	13:00	Surfc	<i>Scrippsiella</i> sp. (B)		Common	0.60
WC15: White Creek - west prong near Food Lion							
	9/12/2004	13:06	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
Lewes - Rehoboth Canal							
RB02: Lewes - Rehoboth Canal at Lewes							
	9/7/2004	8:45	Surfc	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Present	
	9/7/2004	8:45	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/14/2004	8:40	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/14/2004	8:40	Surfc	<i>Amphidinium</i> sp. (T)		Present	
	9/14/2004	8:40	Surfc	<i>Chaetoceros</i> sp. (T)		Common	0.10
	9/14/2004	8:40	Surfc	<i>Ditylum</i> sp. (T)		Present	
	9/14/2004	8:40	Surfc	<i>Fibrocapsa japonica</i> (T)		Present	
	9/14/2004	8:40	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	9/14/2004	8:40	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	9/14/2004	8:40	Surfc	<i>Scrippsiella</i> sp. (B)		Present	
Little Assawoman Bay							

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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
Little Assawoman Bay							
LA15B: Red channel marker #12							
	9/13/2004	8:10	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.14
	9/13/2004	8:10	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
LA35B: Red Channel marker #28, across from Miller Creek							
	9/13/2004	7:56	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	9/13/2004	7:56	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
LA42B: Narrows, South of state beach at point							
	9/13/2004	8:01	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Common	0.15
	9/13/2004	8:01	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
LA-8: Fenwick Ditch @ Harpoon Hannah's							
	9/8/2004	11:00	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	9/8/2004	11:00	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	9/8/2004	11:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	9/13/2004	8:45	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
LA09: Dirickson Creek at Road 381 bridge.							
	9/14/2004	9:20	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/14/2004	9:20	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	9/14/2004	9:20	Surfc	<i>Unknown flagellate</i> (B)	5-10 um 'kidney bean'	Abundant	
LA20: Swann Keys: boat ramp at S end of Blue Teal Rd							
	9/7/2004	9:53	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.51
	9/7/2004	9:53	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/7/2004	9:53	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
LA22B: Dirickson Creek upper section between Williams Creek and the LA09, mid channel near duck blind.							
	9/13/2004	8:23	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	9/13/2004	8:23	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/13/2004	8:23	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Common	0.13
<u>Jefferson Creek</u>							
JC08B: SB, Jefferson Creek Basin between Assawoman canal extensions, access by boat only.							
	9/8/2004	8:40	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	9/8/2004	8:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2004	8:40	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
SB03B: Anchorage Canal at elbow							
	9/8/2004	8:55	Surfc	"Gymnodinioid" sp. (S)	15-25 um Grn	Present	
	9/8/2004	8:55	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	9/8/2004	8:55	Surfc	<i>Amphidinium sp.</i> (T)		Present	
	9/8/2004	8:55	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/8/2004	8:55	Surfc	<i>Heterosigma akashiwo.</i> (T)		Present	
	9/8/2004	8:55	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
SB10E: SB: Russell Canal east dead end							
	9/7/2004	10:48	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Many	6.15
	9/7/2004	10:48	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	9/7/2004	10:48	Surfc	<i>Gyrodinium instriatum</i> (B)		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
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Little Assawoman Bay

Jefferson Creek

SB10E: SB: Russell Canal east dead end

9/7/2004	10:48	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/7/2004	10:48	Surfc		<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.15
9/7/2004	10:50	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Many	8.33
9/7/2004	10:50	Surfc		<i>Heterosigma akashiwo. (T)</i>		Common	
9/7/2004	10:50	Surfc		<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
9/7/2004	10:55	Surfc		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.46
9/7/2004	10:55	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Abundant	27.00
9/7/2004	10:55	Surfc		<i>Chattonella subsalsa (T)</i>		Present	
9/7/2004	10:55	Surfc		<i>Fibrocapsa japonica (T)</i>		Present	
9/7/2004	10:55	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/7/2004	10:55	Surfc		<i>Protoperidinium quinquecorne (B)</i>		Present	
9/7/2004	10:55	Surfc		<i>Unknown flagellate (B)</i>	5-10 um 'kidney bean'	Very Abundant	
9/8/2004	10:25	Surfc		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
9/8/2004	10:25	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Abundant	22.85
9/8/2004	10:25	Surfc		<i>Chattonella subsalsa (T)</i>		Present	
9/8/2004	10:25	Surfc		<i>Fibrocapsa japonica (T)</i>		Present	
9/8/2004	10:25	Surfc		<i>Gyrodinium instriatum (B)</i>		Present	
9/8/2004	10:25	Surfc		<i>Heterocapsa rotundata (B)</i>		Present	
9/8/2004	10:25	Surfc		<i>Heterosigma akashiwo. (T)</i>		Common	0.32
9/8/2004	10:25	Surfc		<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
9/8/2004	10:30	Bttm		<i>Chattonella cf. verruculosa (T)</i>		Abundant	31.50
9/8/2004	10:30	Bttm		<i>Chattonella subsalsa (T)</i>		Present	
9/8/2004	10:30	Bttm		<i>Fibrocapsa japonica (T)</i>		Present	
9/8/2004	10:30	Bttm		<i>Gyrodinium instriatum (B)</i>		Present	
9/8/2004	10:30	Bttm		<i>Heterosigma akashiwo. (T)</i>		Common	0.94
9/8/2004	10:30	Bttm		<i>Kryptoperidinium foliaceum-2 (B)</i>		Common	0.10
9/8/2004	10:30	Bttm		<i>Scrippsiella sp. (B)</i>		Present	
9/8/2004	18:10	Surfc		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
9/8/2004	18:10	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Many	1.27
9/8/2004	18:15	.6 m		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
9/8/2004	18:15	.6 m		<i>Chattonella cf. verruculosa (T)</i>		Many	1.14
9/8/2004	18:15	.6 m		<i>Heterosigma akashiwo. (T)</i>		Present	
9/8/2004	18:15	.6 m		<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
9/8/2004	18:15	.6 m		<i>Scrippsiella sp. (B)</i>		Present	
9/9/2004	10:06	Surfc		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
9/9/2004	10:06	Surfc		<i>Chattonella cf. verruculosa (T)</i>		Many	1.64
9/9/2004	10:06	Surfc		<i>Heterosigma akashiwo. (T)</i>		Present	
9/9/2004	10:16	.6 m		<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
9/9/2004	10:16	.6 m		<i>Chattonella cf. verruculosa (T)</i>		Many	1.46
9/9/2004	10:16	.6 m		<i>Fibrocapsa japonica (T)</i>		Present	
9/9/2004	10:16	.6 m		<i>Heterocapsa rotundata (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
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Little Assawoman Bay

Jefferson Creek

SB10E: SB: Russell Canal east dead end

	9/9/2004	10:16	.6 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/10/2004	8:00	.3 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.14
	9/10/2004	8:00	.3 m	<i>Chattonella cf. verruculosa (T)</i>		Many	1.28
	9/10/2004	8:00	.3 m	<i>Heterocapsa rotundata (B)</i>		Present	
	9/10/2004	8:00	.3 m	<i>Heterosigma akashiwo. (T)</i>		Common	0.10
	9/10/2004	8:00	.3 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/10/2004	8:00	.3 m	<i>Scrippsiella sp. (B)</i>		Present	
	9/11/2004	10:28	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.17
	9/11/2004	10:28	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.77
	9/11/2004	10:28	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/11/2004	10:28	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.10
	9/11/2004	10:28	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.10
	9/11/2004	10:28	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/12/2004	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.25
	9/12/2004	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/12/2004	8:55	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/12/2004	8:55	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/12/2004	8:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/12/2004	9:00	.4 m	<i>Chattonella cf. verruculosa (T)</i>		Common	0.17
	9/12/2004	9:00	.4 m	<i>Fibrocapsa japonica (T)</i>		Present	
	9/12/2004	9:00	.4 m	<i>Gyrodinium instriatum (B)</i>		Present	
	9/12/2004	9:00	.4 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/12/2004	9:00	.4 m	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/12/2004	9:00	.4 m	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/13/2004	9:43	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/13/2004	9:43	Surfc	<i>Amphidinium sp. (T)</i>		Present	
	9/13/2004	9:43	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/13/2004	9:43	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/13/2004	9:43	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/13/2004	9:43	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/13/2004	9:43	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
	9/13/2004	9:48	.4 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.11
	9/13/2004	9:48	.4 m	<i>Chattonella cf. verruculosa (T)</i>		Common	0.13
	9/13/2004	9:48	.4 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/14/2004	9:49	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.14
	9/14/2004	9:49	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.55
	9/14/2004	9:49	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/14/2004	9:49	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/14/2004	9:49	Surfc	<i>Heterosigma akashiwo. (T)</i>		Many	1.61
	9/14/2004	9:49	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/14/2004	10:00	.4 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	

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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
Little Assawoman Bay							
<u>Jefferson Creek</u>							
SB10E: SB: Russell Canal east dead end							
	9/14/2004	10:00	.4 m	<i>Chattonella cf. verruculosa (T)</i>		Many	1.80
	9/14/2004	10:00	.4 m	<i>Gyrodinium instriatum (B)</i>		Present	
	9/14/2004	10:00	.4 m	<i>Heterocapsa rotundata (B)</i>		Present	
	9/14/2004	10:00	.4 m	<i>Heterosigma akashiwo. (T)</i>		Many	4.50
	9/14/2004	10:00	.4 m	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/15/2004	8:33	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.10
	9/15/2004	8:33	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.34
	9/15/2004	8:33	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/15/2004	8:33	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/15/2004	8:33	Surfc	<i>Heterosigma akashiwo. (T)</i>		Common	0.19
	9/15/2004	8:45	.4 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/15/2004	8:45	.4 m	<i>Chattonella cf. verruculosa (T)</i>		Common	0.45
	9/15/2004	8:45	.4 m	<i>Chattonella subsalsa (T)</i>		Present	
	9/15/2004	8:45	.4 m	<i>Heterocapsa rotundata (B)</i>		Present	
	9/15/2004	8:45	.4 m	<i>Heterosigma akashiwo. (T)</i>		Common	0.37
SB10W: SB: Russell Canal west dead end							
	9/7/2004	10:38	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	9/7/2004	10:38	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.11
	9/7/2004	10:38	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/7/2004	10:38	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/7/2004	10:43	Bttm	<i>Chattonella cf. verruculosa (T)</i>		Common	0.19
	9/7/2004	10:43	Bttm	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/7/2004	10:43	Bttm	<i>Protoperdinium quinquecorne (B)</i>		Present	
	9/9/2004	10:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/9/2004	10:20	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	9/9/2004	10:20	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/9/2004	10:20	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	9/9/2004	10:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/9/2004	10:20	Surfc	<i>Protoperdinium quinquecorne (B)</i>		Present	
	9/11/2004	10:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Common	0.22
	9/11/2004	10:50	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.13
	9/11/2004	10:50	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.10
	9/11/2004	10:50	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	9/11/2004	10:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	9/12/2004	12:51	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
<u>Miller Creek</u>							
LA33B: Camp Barnes dock - by boat							
	9/13/2004	7:47	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.17
	9/13/2004	7:47	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	

Rehoboth Bay

ML: Massey's Landing

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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							
ML: Massey's Landing	9/14/2004	9:00	Surfc	<i>Ditylum sp. (T)</i>		Present	
	9/14/2004	9:00	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
RB07: West Bay Park	9/14/2004	10:30	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
Bald Eagle Creek							
RB46B: Torquay Canal by boat; UD Site 2	9/10/2004	11:00	.2 m	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Common	
	9/10/2004	11:00	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/10/2004	11:00	.2 m	<i>Amphidinium sp. (T)</i>		Present	
	9/10/2004	11:05	2 m	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	9/10/2004	11:05	2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/10/2004	11:05	2 m	<i>Amphidinium sp. (T)</i>		Present	
	9/10/2004	11:05	2 m	<i>Chaetoceros sp. (T)</i>		Common	
	9/10/2004	11:05	2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/10/2004	11:10	5 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/10/2004	11:10	5 m	<i>Heterocapsa rotundata (B)</i>		Present	
RB47B: Bald Eagle Creek - by boat; UD Site 9	9/10/2004	12:00	.2 m	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	9/10/2004	12:00	.2 m	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/10/2004	12:00	.2 m	<i>Chaetoceros sp. (T)</i>		Common	0.16
	9/10/2004	12:00	.2 m	<i>Chattonella cf. verruculosa (T)</i>		Present	
	9/10/2004	12:00	.2 m	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/10/2004	12:05	2 m		No HABs found		
	9/10/2004	12:10	3.5 m	<i>Akashiwo sanguineum (B)</i>		Present	
	9/10/2004	12:10	3.5 m	<i>Chaetoceros sp. (T)</i>		Present	
	9/10/2004	12:10	3.5 m	<i>Scrippsiella sp. (B)</i>		Present	
Guinea Creek							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)	9/13/2004	11:20	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
RB05D: Ditch at Potnets Creekside, mouth of Guinea Creek	9/13/2004	11:25	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
RB06: Guinea Creek (Winding Creek Village)	9/13/2004	8:30	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Present	
	9/13/2004	8:30	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
RB06A: Guinea Creek @ Rd 298 Bridge	9/14/2004	11:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
	9/14/2004	11:00	Surfc	<i>"Gymnodinioid" sp. (S)</i>	15-25 um Grn	Common	0.14
	9/14/2004	11:00	Surfc	<i>Heterosigma akashiwo. (T)</i>		Present	
	9/14/2004	11:00	Surfc	<i>Kryptoperidinium foliaceum-2 (B)</i>		Present	
	9/14/2004	11:00	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
Herring Creek							
RB04: Herring Creek, Mid-Section	9/13/2004	12:10	Surfc	<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
Rehoboth Bay							
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	9/13/2004	12:10	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/13/2004	12:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/13/2004	12:10	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/13/2004	12:10	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
RB40: Burton Prong							
	9/14/2004	8:45	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/14/2004	8:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/14/2004	8:45	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/14/2004	8:45	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	9/10/2004	14:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/10/2004	14:00	Surfc	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Present	
	9/10/2004	14:00	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.32
	9/10/2004	14:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.22
	9/10/2004	14:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	9/10/2004	14:00	Surfc	<i>Heterosigma akashiwo</i> . (T)		Present	
	9/10/2004	14:00	Surfc	<i>Kryptoperidinium foliaceum-2</i> (B)		Present	
	9/14/2004	11:30	Surfc	" <i>Gymnodinioid</i> " sp. (S)	15-25 um Grn	Present	
	9/14/2004	11:30	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.71
	9/14/2004	11:30	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	9/14/2004	11:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	

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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