

Harmful Algae Report

All data between 7/8/2009 and 7/23/2009

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							
	7/14/2009	8:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/14/2009	8:45	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
Atlantic Ocean							
RWPM14: Tower Rd Ocean, Delaware Seashore State Park							
	7/14/2009	10:45	Surfc	<i>Akashiwo sanguineum</i> (B)		Rare	0.001
	7/14/2009	10:45	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	7/14/2009	10:45	Surfc	<i>Prorocentrum gracile</i> (B)		Rare	0.001
	7/14/2009	10:45	Surfc	<i>Prorocentrum minimum</i> (T)		Rare	0.002
	7/14/2009	10:45	Surfc	<i>Pseudo-nitzschia</i> spp. (T)		Very Rare	
	7/14/2009	10:45	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
RWPM8: Cape Henlopen State Park Beach (2)							
	7/20/2009	7:00	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	7/20/2009	7:00	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	7/20/2009	7:00	Surfc	<i>Prorocentrum</i> sp. (T)		Rare	0.002
	7/20/2009	7:00	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
	7/20/2009	7:00	Surfc	<i>Scrippsiella</i> sp. (B)		Very Rare	
RWPMIV: Fenwick Island State Park							
	7/14/2009	9:10	Surfc	<i>Chaetoceros</i> spp. (T)		Very Rare	
	7/14/2009	9:10	Surfc	<i>Prorocentrum gracile</i> (B)		Very Rare	
	7/14/2009	9:10	Surfc	<i>Prorocentrum minimum</i> (T)		Rare	0.001
	7/14/2009	9:10	Surfc	<i>Prorocentrum</i> sp. (T)		Very Rare	
	7/14/2009	9:10	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
Broadkill River							
BR01: Broadkill river @ PEL dock.							
	7/8/2009	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	7/8/2009	9:00	Net	<i>Dinophysis acuminata</i> (T)			
	7/8/2009	9:00	Net	<i>Ditylum</i> spp. (T)			
	7/8/2009	9:00	Net	<i>Karlodinium veneficum</i> (T)			
	7/8/2009	9:00	Net	<i>Prorocentrum gracile</i> (B)			
	7/8/2009	9:00	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.275
	7/8/2009	9:00	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/15/2009	9:00	Net	<i>Chaetoceros</i> spp. (T)			
	7/15/2009	9:00	Net	<i>Ditylum</i> spp. (T)			
	7/15/2009	9:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
BR20: Broadkill River at Milton tidal pond							
	7/15/2009	10:20	Surfc		No HABs found		
<u>Old Mill Creek</u>							

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Broadkill River							
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	7/15/2009	12:35	Surfc	<i>Amphidinium spp. (T)</i>		Present	
	7/15/2009	12:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/15/2009	12:35	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.325
Delaware Bay							
DB01: End of Cape Shores pier							
	7/15/2009	12:00	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.125
	7/15/2009	12:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	7/15/2009	12:40	Surfc	<i>Chaetoceros spp. (T)</i>		Many	1.950
BR40: Canary Creek at Pilottown Rd							
	7/15/2009	9:30	Surfc		No HABs found		
Indian River							
<u>Assawoman Canal</u>							
IR50: Assawoman Canal at N end, marina dock							
	7/14/2009	7:30	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/14/2009	7:30	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Common	0.425
	7/14/2009	7:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/14/2009	7:30	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
<u>Bethany Loop Canal</u>							
IR62: Loop Canal, Pa Ave terminus, Bethany Beach							
	7/13/2009	7:49	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/13/2009	7:49	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.125
	7/13/2009	7:49	Surfc	<i>Fibrocapsa japonica (T)</i>		Present	
	7/13/2009	7:49	Surfc	<i>Gyrodinium instriatum (B)</i>		Common	0.100
	7/13/2009	7:49	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2009	7:49	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/13/2009	7:49	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/13/2009	7:49	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Common	0.112
<u>Indian River</u>							
IR04: Warwick Cove							
	7/13/2009	9:35	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/13/2009	9:35	Surfc	<i>Chaetoceros spp. (T)</i>		Present	
	7/13/2009	9:35	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
IR07: Holt's Landing State Park							
	7/14/2009	7:52	Surfc	<i>Rhizosolenia spp. (T)</i>		Present	
IR11: Pot Nets Seaside Pier							
	7/13/2009	11:05	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
IR20: Bay Colony							
	7/14/2009	7:40	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/14/2009	7:40	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	

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Indian River							
<u>Indian River</u>							
IR20: Bay Colony							
	7/14/2009	7:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
IR21: Entrance to Boat House Pond, Indian River Bay							
	7/13/2009	7:10	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	7/13/2009	7:10	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
IR36B: James Farm, Pasture Point							
	7/14/2009	8:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	7/20/2009	8:20	Surfc	<i>Ceratium</i> spp. (T)		Rare	0.001
	7/20/2009	8:20	Surfc	<i>Chaetoceros</i> spp. (T)		Rare	0.003
	7/20/2009	8:20	Surfc	<i>Prorocentrum gracile</i> (B)		Rare	0.003
	7/20/2009	8:20	Surfc	<i>Prorocentrum minimum</i> (T)		Very Rare	
	7/20/2009	8:20	Surfc	<i>Prorocentrum</i> sp. (T)		Rare	0.002
	7/20/2009	8:20	Surfc	<i>Rhizosolenia</i> spp. (T)		Very Rare	
	7/20/2009	8:20	Surfc	<i>Scrippsiella</i> sp. (B)		Very Rare	
<u>Vines Creek</u>							
IR38: Vines Lane							
	7/14/2009	7:30	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	7/14/2009	7:30	Surfc	<i>Amphidinium</i> spp. (T)		Present	
	7/14/2009	7:30	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
	7/14/2009	7:30	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/14/2009	7:30	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/14/2009	7:30	Surfc	<i>Prorocentrum gracile</i> (B)		Present	
	7/22/2009	7:45	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	7/22/2009	7:45	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/22/2009	7:45	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/22/2009	7:45	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/22/2009	7:45	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
	7/22/2009	7:45	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Present	
	7/22/2009	7:45	Surfc	<i>Rhizosolenia</i> spp. (T)		Present	
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	7/13/2009	9:25	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	7/13/2009	9:25	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Common	0.112
	7/13/2009	9:25	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.188
	7/13/2009	9:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/13/2009	9:25	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/13/2009	9:25	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.125
	7/13/2009	9:25	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/13/2009	9:25	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.225
	7/13/2009	9:25	Surfc	<i>Scrippsiella</i> sp. (B)		Present	

Little Assawoman Bay

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Little Assawoman Bay							
<u>Assawoman Canal</u>							
LA10: Assawoman Canal @ Kent Ave Bridge							
	7/13/2009	7:20	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/13/2009	7:20	Surfc	<i>Chattonella subsalsa (T)</i>		Present	
	7/13/2009	7:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	7/13/2009	8:15	Surfc	<i>Akashiwo sanguineum (B)</i>		Present	
	7/13/2009	8:15	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2009	8:15	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
LA09: Dirickson Creek at Road 381 bridge.							
	7/13/2009	8:55	Surfc	" <i>Gymnodinioid</i> " sp. (S)	10-15 um Grn	Present	
	7/13/2009	8:55	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/13/2009	8:55	Surfc	<i>Gyrodinium instriatum (B)</i>		Present	
	7/13/2009	8:55	Surfc	<i>Heterocapsa rotundata (B)</i>		Abundant	13.200
	7/13/2009	8:55	Surfc	<i>Heterosigma akashiwo (T)</i>		Common	0.112
	7/13/2009	8:55	Surfc	<i>Karlodinium veneficum (T)</i>		Common	0.138
	7/13/2009	8:55	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Common	0.138
	7/13/2009	8:55	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	7/14/2009	8:07	Surfc	<i>Chattonella subsalsa (T)</i>		Common	0.262
	7/14/2009	8:07	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/14/2009	8:07	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/14/2009	8:07	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
SB10W: Russell Canal west dead end							
	7/14/2009	8:24	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.112
	7/14/2009	8:24	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
Rehoboth Bay							
ML: Massey's Landing							
	7/13/2009	11:20	Surfc	<i>Heterocapsa rotundata (B)</i>		Common	0.125
RB07: West Bay Park							
	7/14/2009	8:30	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
<u>Bald Eagle Creek</u>							
RB46: Torquay Canal at East bulkhead on Land's End.							
	7/13/2009	8:17	Surfc	<i>Chattonella cf. verruculosa (T)</i>		Present	
	7/13/2009	8:17	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	7/13/2009	8:17	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
	7/13/2009	8:17	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	7/13/2009	8:17	Surfc	<i>Protoperidinium quinquecorne (B)</i>		Present	
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							

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Rehoboth Bay							
<u>Guinea Creek</u>							
RB05: Mouth of Guinea Creek (Pot Nets Creekside)							
	7/13/2009	11:40	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/13/2009	11:40	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/13/2009	11:40	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/13/2009	11:40	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/13/2009	11:40	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/13/2009	11:40	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
RB06: Guinea Creek (Winding Creek Village)							
	7/13/2009	12:05	Surfc	(Unknown) sp. (B*)	5-15 um Grn trdrp	Abundant	60.500
	7/13/2009	12:05	Surfc	<i>Chattonella subsalsa</i> (T)		Common	0.200
	7/13/2009	12:05	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
	7/13/2009	12:05	Surfc	<i>Heterosigma akashiwo</i> (T)		Present	
	7/13/2009	12:05	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/13/2009	12:05	Surfc	<i>Kryptoperidinium foliaceum</i> (B)		Present	
	7/13/2009	12:05	Surfc	<i>Navicula (small)</i> (B*)		Abundant	22.000
<u>Herring Creek</u>							
RB04: Herring Creek, Mid-Section							
	7/14/2009	8:00	Surfc	<i>Akashiwo sanguineum</i> (B)		Present	
	7/14/2009	8:00	Surfc	<i>Amphidinium spp.</i> (T)		Present	
	7/14/2009	8:00	Surfc	<i>Chattonella subsalsa</i> (T)		Present	
	7/14/2009	8:00	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
	7/14/2009	8:00	Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.100
	7/14/2009	8:00	Surfc	<i>Navicula (small)</i> (B*)		Abundant	15.400
	7/14/2009	8:00	Surfc	<i>Scrippsiella sp.</i> (B)		Present	
<u>Lewes - Rehoboth Canal</u>							
RB02: Lewes - Rehoboth Canal at Lewes							
	7/14/2009	8:35	Net	<i>Chaetoceros spp.</i> (T)			
	7/14/2009	8:35	Net	<i>Rhizosolenia spp.</i> (T)			
	7/14/2009	8:35	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	7/13/2009	8:36	Surfc	<i>Chattonella cf. verruculosa</i> (T)		Present	
	7/13/2009	8:36	Surfc	<i>Gyrodinium instriatum</i> (B)		Common	0.275
	7/13/2009	8:36	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	7/13/2009	8:36	Surfc	<i>Protoperidinium quinquecorne</i> (B)		Common	0.100
Wagamon's Pond							
BR44: Wagamon's Pond, Milton							
	7/16/2009	9:45	Surfc	<i>Lyngbya</i> (T)		Present	

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