

# Harmful Algae Report

All data between 4/1/2018 and 5/31/2018

University of Delaware Citizen Monitoring Program

Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Broadkill River</b>							
<u>Broadkill River</u>							
BR01: Broadkill river @ PEL dock.							
	4/4/2018	8:45	Net	<i>Heterocapsa rotundata</i> (B)			
				<i>Heterocapsa triquetra</i> (B)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Pseudo-nitzschia</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Heterocapsa rotundata</i> (B)		Common	0.275
				<i>Heterocapsa triquetra</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Rare	0.001
				<i>Pseudo-nitzschia</i> spp. (T)		Present	0.045
				<i>Rhizosolenia</i> spp. (T)		Present	0.015
	4/18/2018	8:35	Net	<i>Heterocapsa rotundata</i> (B)			
				<i>Heterocapsa triquetra</i> (B)			
				<i>Pseudo-nitzschia</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Ditylum</i> spp. (T)		Rare	0.004
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Pseudo-nitzschia</i> spp. (T)		Common	0.212
				<i>Rhizosolenia</i> spp. (T)		Common	0.101
	5/2/2018	8:50	Net	<i>Ditylum</i> spp. (T)			
				<i>Gymnodinium aureolum</i> (B)			
				<i>Heterocapsa rotundata</i> (B)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Pseudo-nitzschia</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	0.021
	5/9/2018	8:45	Net	<i>Ditylum</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/16/2018	8:50	Net	<i>Chaetoceros</i> spp. (T)			
				<i>Ditylum</i> spp. (T)			
				<i>Heterocapsa rotundata</i> (B)			
				<i>Heterocapsa triquetra</i> (B)			
				<i>Heterosigma akashiwo</i> (T)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Prorocentrum minimum</i> (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Present	

Name subsripts: (B) - nontoxic bloom former; (B\*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell. MC/L - Million Cells per Liter.

Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

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<b>Broadkill River</b>							
<u>Broadkill River</u>							
BR01: Broadkill river @ PEL dock.							
	5/16/2018	8:50	Surfc	<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
	5/23/2018	8:45	Net	<i>Amphidinium spp. (T)</i>			
				<i>Heterocapsa lanceolata (B)</i>			
				<i>Heterocapsa rotundata (B)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Kryptoperidinium foliaceum (B)</i>			
				<i>Prorocentrum minimum (T)</i>			
			Surfc	<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Common	0.138
				<i>Prorocentrum micans (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
	5/30/2018		Net	<i>Amphidinium spp. (T)</i>			
				<i>Chaetoceros spp. (T)</i>			
				<i>Fibrocapsa japonica (T)</i>			
				<i>Heterocapsa lanceolata (B)</i>			
				<i>Heterocapsa rotundata (B)</i>			
				<i>Karlodinium veneficum (T)</i>			
				<i>Prorocentrum minimum (T)</i>			
				<i>Prorocentrum triestinum (B)</i>			
			Surfc	<i>Amphidinium spp. (T)</i>		Present	
				<i>Chaetoceros spp. (T)</i>		Common	0.350
				<i>Heterocapsa lanceolata (B)</i>		Common	0.175
				<i>Heterocapsa rotundata (B)</i>		Common	0.275
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
BR20: Broadkill River at Milton tidal pond							
	5/9/2018	6:45	Surfc		No HABS found		
	5/23/2018	6:00			No HABS found		
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	5/9/2018	12:53	Surfc	<i>Amphidinium spp. (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
BR40: Canary Creek at Pilottown Rd							
	5/8/2018	9:50	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
	5/23/2018	8:00		<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
<u>Diamond Pond</u>							
BR48: Diamond Pond at Spillway							
	5/9/2018	8:40	Surfc		No HABS found		
	5/23/2018	7:15			No HABS found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/9/2018	10:18	Surfc	<i>Kryptoperidinium foliaceum (B)</i>		Many	1.250

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<b>Broadkill River</b>							
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	5/9/2018	10:18	Surfc	<i>Microcystis spp. (T)</i>		Abundant	10.000
	5/23/2018	10:10		<i>Aphanizomenon spp. (T)</i>		Abundant	32.500
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	5/9/2018	11:40	Surfc	<i>Microcystis spp. (T)</i>		Abundant	16.900
	5/23/2018	11:30		<i>Anabaena spp. (T)</i>		Many	2.125
				<i>Microcystis spp. (T)</i>		Abundant	52.500
<b>Delaware Bay</b>							
<u>Delaware Bay</u>							
DB01: End of Cape Shores pier							
	5/22/2018	8:26	Surfc	<i>"Gymnodinioid" sp. (S)</i>	10-15 um Grn	Present	
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Common	0.188
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.100
				<i>Prorocentrum minimum (T)</i>		Common	0.138
	5/29/2018	8:28		<i>Amphidinium spp. (T)</i>		Present	
				<i>Chaetoceros spp. (T)</i>		Common	0.375
				<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
<b>Indian River</b>							
<u>Indian River</u>							
IR02a: Rosedale crabbing pier							
	4/16/2018	9:50	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.788
				<i>Heterocapsa triquetra (B)</i>		Common	0.138
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Pseudo-nitzschia spp. (T)</i>		Present	0.025
	5/7/2018	9:49		<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.163
				<i>Prorocentrum minimum (T)</i>		Many	1.125
				<i>Scrippsiella sp. (B)</i>		Present	
	5/21/2018	9:55		<i>Heterocapsa triquetra (B)</i>		Present	
IR11: Pot Nets Seaside Pier							
	4/16/2018	10:46	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Common	0.163
				<i>Rhizosolenia spp. (T)</i>		Common	0.100
	5/7/2018	10:33		<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
	5/21/2018	10:43		<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
IR24: Iron Branch - County road 331 at bridge							
	4/16/2018	9:15	Surfc	<i>Alexandrium sp. (T)</i>		Present	0.013
				<i>Chaetoceros spp. (T)</i>		Common	0.563
				<i>Heterocapsa triquetra (B)</i>		Common	0.100

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<b>Indian River</b>							
<u>Indian River</u>							
IR24: Iron Branch - County road 331 at bridge							
	5/7/2018	9:20	Surfc		No HABs found		
	5/21/2018	9:25			No HABs found		
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	4/17/2018	7:40	Surfc	<i>Heterocapsa triquetra (B)</i>		Present	
	5/8/2018	7:30			No HABs found		
	5/22/2018	7:43			No HABs found		
IR39: North side of Inlet at Wheelchair fishing platform under new bridge.							
	4/30/2018	9:05	Surfc	<i>Pseudo-nitzschia spp. (T)</i>		Common	0.103
				<i>Rhizosolenia spp. (T)</i>		Present	0.034
	5/15/2018	8:40		<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum micans (B)</i>		Rare	0.003
				<i>Rhizosolenia spp. (T)</i>		Present	0.075
	5/29/2018	8:55		<i>Amphidinium spp. (T)</i>		Present	
				<i>Fibrocapsa japonica (T)</i>		Present	
				<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Rare	0.001
				<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.006
				<i>Rhizosolenia spp. (T)</i>		Rare	0.002
				<i>Scrippsiella sp. (B)</i>		Present	
<u>Pepper Creek</u>							
IR51: Pepper Creek, Creekside							
	4/17/2018	9:30	Surfc	<i>Chaetoceros spp. (T)</i>		Many	1.000
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterocapsa triquetra (B)</i>		Common	0.175
				<i>Rhizosolenia spp. (T)</i>		Present	
	5/8/2018	8:30		<i>Karlodinium veneficum (T)</i>		Present	
				<i>Leptocylindrus spp. (B*)</i>		Abundant	17.600
				<i>Prorocentrum minimum (T)</i>		Many	1.125
				<i>Scrippsiella sp. (B)</i>		Present	
	5/22/2018	10:40		<i>Chaetoceros spp. (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Skeletonema spp. (B*)</i>		Abundant	11.000
<u>Vines Creek</u>							
IR38: Vines Lane							
	4/17/2018	10:55	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.700
				<i>Dinophysis acuminata (T)</i>		Present	0.025
				<i>Heterocapsa triquetra (B)</i>		Common	0.125
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
	5/8/2018	8:15		<i>Centric diatom 5-10 um (B*)</i>		Abundant	17.600
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.125
				<i>Navicula (small) (B*)</i>		Abundant	26.400

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<b>Indian River</b>							
<u>Vines Creek</u>							
IR38: Vines Lane							
	5/8/2018	8:15	Surfc	<i>Prorocentrum minimum</i> (T)		Common	0.650
	5/22/2018	8:00		<i>Skeletonema</i> spp. (B*)		Abundant	13.200
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/21/2018	8:12	Surfc		No HABs found		
	5/30/2018	8:00		<i>Gyrodinium instriatum</i> (B)		Many	5.500
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Protoperidinium quinquecorne</i> (B)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	4/19/2018	8:35	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/7/2018	7:04		<i>Dinophysis acuminata</i> (T)		Rare	0.008
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Common	0.138
				<i>Prorocentrum minimum</i> (T)		Present	
	5/21/2018	7:16		<i>Chaetoceros</i> spp. (T)		Common	0.625
LA09: Dirickson Creek at Road 381 bridge.							
	4/17/2018	8:40	Surfc	<i>Chaetoceros</i> spp. (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Common	0.113
	5/7/2018	7:53		<i>Gyrodinium instriatum</i> (B)		Common	0.400
				<i>Karlodinium veneficum</i> (T)		Common	0.175
				<i>Prorocentrum minimum</i> (T)		Many	1.080
				<i>Scrippsiella</i> sp. (B)		Present	
	5/21/2018	7:57			No HABs found		
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	4/17/2018	7:42	Surfc	<i>Amphidinium</i> spp. (T)		Present	
				<i>Chaetoceros</i> spp. (T)		Common	0.263
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/8/2018	8:05		<i>Amphidinium</i> spp. (T)		Present	
				<i>Chaetoceros</i> spp. (T)		Present	
				<i>Gymnodinium aureolum</i> (B)		Present	
				<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Many	2.830
				<i>Karlodinium veneficum</i> (T)		Many	2.480
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
	5/22/2018	7:54		<i>Gymnodinium aureolum</i> (B)		Present	
				<i>Heterosigma akashiwo</i> (T)		Common	0.175
				<i>Karlodinium veneficum</i> (T)		Common	0.125
				<i>Prorocentrum</i> sp. (T)		Present	

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Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	5/29/2018	7:20	Surfc	<i>Chloromorom toxicum (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.225
				<i>Prorocentrum minimum (T)</i>		Present	
SB10W: Russell Canal west dead end							
	4/17/2018	7:59	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.375
				<i>Prorocentrum minimum (T)</i>		Present	
	5/8/2018	8:20		<i>Dinophysis acuminata (T)</i>		Present	0.013
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.463
				<i>Prorocentrum minimum (T)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
	5/22/2018	8:08		<i>(Unknown flagellate) sp. (B*)</i>	10 um Grn Oval	Abundant	11.000
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Common	0.150
				<i>Karlodinium veneficum (T)</i>		Present	
	5/29/2018	7:10		<i>Chloromorom toxicum (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Common	0.213
				<i>Scrippsiella sp. (B)</i>		Present	
<u>Little Assawoman Bay</u>							
LA46: Fenwick Island Tide Gauge							
	4/17/2018	9:25	Surfc	<i>Prorocentrum minimum (T)</i>		Present	
	5/8/2018	9:17		<i>Dinophysis acuminata (T)</i>		Present	0.013
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
	5/22/2018	8:53		<i>Chaetoceros spp. (T)</i>		Many	1.050
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	4/12/2018	9:15	Surfc	<i>Dinophysis acuminata (T)</i>		Rare	0.002
				<i>Gymnodinium aureolum (B)</i>		Common	0.263
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Pseudo-nitzschia spp. (T)</i>		Rare	0.001
				<i>Rhizosolenia spp. (T)</i>		Rare	0.004
	5/1/2018	9:00		<i>Chaetoceros spp. (T)</i>		Common	0.138
				<i>Cochlodinium sp. (T)</i>		Present	
				<i>Dinophysis acuminata (T)</i>		Many	1.125

Name subsripts: (B) - nontoxic bloom former; (B\*) - nontoxic bloom former reported only at levels > 10 MC/L; (S) - cell similar to a known toxic cell; (T) - potentially toxic cell. MC/L - Million Cells per Liter.

Abundance Levels: Not Found: Looked for, but no cells found; Very Rare: < 0.001 MC/L; Rare 0.001 - 0.01 MC/L; Present: 0.01 - 0.1 MC/L; Common: 0.1 - 1 MC/L; Many: 1 - 10 MC/L; Abundant: 10 - 100 MC/L; Very Abundant: > 100 MC/L.

**University of Delaware Citizen Monitoring Program**

Water Body Tributary Site	Date	Time	Sample Depth	Name	Comment if ID uncertain	Abundance	MC/L
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	5/1/2018	9:00	Surfc	<i>Gymnodinium aureolum (B)</i>		Many	4.620
				<i>Heterocapsa rotundata (B)</i>		Many	1.760
				<i>Karlodinium veneficum (T)</i>		Common	0.880
				<i>Prorocentrum minimum (T)</i>		Present	
	5/15/2018	9:45		<i>Centric diatom 5-10 um (B*)</i>		Abundant	11.000
				<i>Chaetoceros spp. (T)</i>		Many	1.275
				<i>Dinophysis acuminata (T)</i>		Many	1.560
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
	5/22/2018	9:36		<i>Alexandrium sp. (T)</i>		Rare	0.002
				<i>Centric diatom 5-10 um (B*)</i>		Abundant	11.000
				<i>Chaetoceros spp. (T)</i>		Common	0.600
				<i>Dinophysis acuminata (T)</i>		Common	0.188
				<i>Gymnodinium aureolum (B)</i>		Rare	0.002
				<i>Karlodinium veneficum (T)</i>		Many	6.600
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Rare	0.005
				<i>Scrippsiella sp. (B)</i>		Rare	0.004
	5/30/2018	8:33		<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Abundant	11.000
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.213
				<i>Prorocentrum minimum (T)</i>		Present	
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	4/16/2018	8:13	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
	5/7/2018	7:53		<i>Prorocentrum minimum (T)</i>		Present	
	5/21/2018	8:09		<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	4/19/2018	10:00	Surfc		No HABs found		
	5/7/2018	11:40		<i>Dinophysis acuminata (T)</i>		Rare	0.008
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2018	11:42			No HABs found		

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