

# Harmful Algae Report

All data between 4/1/2019 and 5/31/2019

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.							
	4/17/2019	8:50	Net	<i>Karlodinium veneficum</i> (T)			
			Surfc	<i>Karlodinium veneficum</i> (T)		Present	
	5/1/2019	9:50	Net	"Gymnodinioid" sp. (S)	10-15 um Grn		
				<i>Ceratium pentagonum</i> (B)			
				<i>Ditylum</i> spp. (T)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Prorocentrum micans</i> (B)			
				<i>Prorocentrum minimum</i> (T)			
				<i>Pseudo-nitzschia</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
				<i>Scrippsiella</i> sp. (B)			
			Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Pseudo-nitzschia</i> spp. (T)		Present	
				<i>Rhizosolenia</i> spp. (T)		Present	
	5/8/2019	8:45	Net	"Gymnodinioid" sp. (S)	10-15 um Grn		
				<i>Chaetoceros</i> spp. (T)			
				<i>Cochlodinium</i> sp. (T)			
				<i>Heterocapsa rotundata</i> (B)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Prorocentrum minimum</i> (T)			
				<i>Pseudo-nitzschia</i> spp. (T)			
				<i>Rhizosolenia</i> spp. (T)			
				<i>Scrippsiella</i> sp. (B)			
			Surfc	<i>Chaetoceros</i> spp. (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Common	0.100
	5/15/2019		Net	<i>Amphidinium</i> spp. (T)			
				<i>Ceratium</i> spp. (T)			
				<i>Ditylum</i> spp. (T)			
				<i>Heterocapsa lanceolata</i> (B)			
				<i>Heterocapsa rotundata</i> (B)			
				<i>Karlodinium veneficum</i> (T)			
				<i>Prorocentrum minimum</i> (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	"Gymnodinioid" sp. (S)	10-15 um Grn	Present	
				<i>Heterocapsa lanceolata</i> (B)		Present	
				<i>Heterocapsa rotundata</i> (B)		Common	0.138
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Common	0.138
	5/22/2019	9:15	Net	<i>Chaetoceros</i> spp. (T)			
				<i>Ditylum</i> spp. (T)			
				<i>Heterocapsa lanceolata</i> (B)			
				<i>Heterocapsa rotundata</i> (B)			

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.							
	5/22/2019	9:15	Net	<i>Karlodinium veneficum</i> (T)			
				<i>Rhizosolenia</i> spp. (T)			
			Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.188
				<i>Ditylum</i> spp. (T)		Present	
				<i>Fibrocapsa japonica</i> (T)		Present	
				<i>Heterocapsa lanceolata</i> (B)		Present	
				<i>Heterocapsa rotundata</i> (B)		Common	0.125
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/29/2019	8:40	Net	<i>Amphidinium</i> spp. (T)			
				<i>Ditylum</i> spp. (T)			
				<i>Prorocentrum minimum</i> (T)			
			Surfc	<i>Amphidinium</i> spp. (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
BR20: Broadkill River at Milton tidal pond							
	4/17/2019	6:20	Surfc		No HABS found		
	5/8/2019	6:25			No HABS found		
<u>Canary Creek</u>							
BR19: Canary Creek at New Road							
	5/8/2019	12:44	Surfc	<i>Prorocentrum minimum</i> (T)		Present	
BR40: Canary Creek at Pilottown Rd							
	5/28/2019	8:27	Surfc	<i>Amphidinium</i> spp. (T)		Present	
				<i>Chaetoceros</i> spp. (T)		Present	
				<i>Heterocapsa lanceolata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
<u>Diamond Pond</u>							
BR48: Diamond Pond at Spillway							
	4/17/2019	8:00	Surfc		No HABS found		
	5/8/2019	7:45			No HABS found		
<u>Old Mill Creek</u>							
BR21: Old Mill Creek downstream from Red Mill Pond							
	4/17/2019	10:55	Surfc		No HABS found		
	5/8/2019	11:40		<i>Amphidinium</i> spp. (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Microcystis</i> spp. (T)		Many	3.440
<u>Red Mill Pond</u>							
BR54: Red Mill Pond outlet at Rt 1							
	5/8/2019	12:35	Surfc	<i>Microcystis</i> spp. (T)		Abundant	10.000
	5/22/2019	11:27		<i>Microcystis</i> spp. (T)		Abundant	37.000
<u>Wagamon's Pond</u>							
BR44: Wagamon's Pond on Northern Shoreline, Milton							
	5/8/2019	10:00	Surfc		No HABS found		
<b>Delaware Bay</b>							
RWPM6: Broadkill Beach							

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<b>Delaware Bay</b>							
RWPM6: Broadkill Beach							
	5/20/2019	9:10	Surfc	<i>Amphidinium spp. (T)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
<b>Delaware Bay</b>							
DB01: End of Cape Shores pier							
	4/10/2019	8:24	Surfc	<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Pseudo-nitzschia spp. (T)</i>		Present	
	4/17/2019	8:59			No HABs found		
	4/23/2019	8:36		<i>"Gymnodinoid" sp. (S)</i>	25-40 um Grn	Present	
	5/3/2019	7:41		<i>"Gymnodinoid" sp. (S)</i>	10-15 um Grn	Present	
				<i>Amphidinium spp. (T)</i>		Present	
				<i>Pseudo-nitzschia spp. (T)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	
	5/8/2019	9:02		<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
	5/14/2019	9:05		<i>"Gymnodinoid" sp. (S)</i>	10-15 um Grn	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	
	5/22/2019	8:51		<i>Chaetoceros spp. (T)</i>		Common	0.100
				<i>Heterocapsa lanceolata (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Common	0.163
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
	5/30/2019	8:12		<i>Amphidinium spp. (T)</i>		Present	
				<i>Chaetoceros spp. (T)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
<b>Indian River</b>							
<b>Indian River</b>							
IR02a: Rosedale crabbing pier							
	4/15/2019	9:20	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.200
				<i>Heterocapsa rotundata (B)</i>		Common	0.113
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Common	0.125
				<i>Scrippsiella sp. (B)</i>		Present	
				<i>V. small, &lt;5 um centrics (B*)</i>		Abundant	11.000
	5/6/2019	9:46		<i>Karlodinium veneficum (T)</i>		Present	
	5/21/2019	11:40		<i>Karlodinium veneficum (T)</i>		Present	
				<i>Skeletonema spp. (B*)</i>		Abundant	26.400
IR11: Pot Nets Seaside Pier							
	4/15/2019	10:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
				<i>Rhizosolenia spp. (T)</i>		Present	

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<b>Indian River</b>							
<u>Indian River</u>							
IR11: Pot Nets Seaside Pier							
	5/6/2019	10:35	Surfc	<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Pseudo-nitzschia</i> spp. (T)		Common	0.500
	5/30/2019	8:35		<i>Amphidinium</i> spp. (T)		Present	
				<i>Chaetoceros</i> spp. (T)		Common	0.150
				<i>Heterocapsa lanceolata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
IR24: Iron Branch - County road 331 at bridge							
	4/15/2019	8:50	Surfc	<i>Navicula</i> (small) (B*)		Abundant	11.000
				<i>Prorocentrum minimum</i> (T)		Present	
	5/6/2019	9:18		<i>Gonyaulax scrippsae</i> (B)		Present	
				<i>Gymnodinium aureolum</i> (B)		Present	
				<i>Gyrodinium instriatum</i> (B)		Common	0.325
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
IR36: James Farm, base of Pasture Point Knee deep 150 yds from shore							
	4/16/2019	7:30	Surfc		No HABs found		
	5/7/2019	7:55		<i>Chaetoceros</i> spp. (T)		Common	0.350
				<i>Pseudo-nitzschia</i> spp. (T)		Common	0.113
	5/22/2019			<i>Chaetoceros</i> spp. (T)		Common	0.325
				<i>Heterocapsa lanceolata</i> (B)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
<u>Pepper Creek</u>							
IR51: Pepper Creek, Creekside							
	4/23/2019	9:25	Surfc		No HABs found		
	5/7/2019	8:20		<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Heterocapsa triquetra</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>V. small, &lt;5 um centrics</i> (B*)		Abundant	60.500
<u>Vines Creek</u>							
IR38: Vines Lane							
	4/23/2019	8:30	Surfc		No HABs found		
	5/7/2019			<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>V. small, &lt;5 um centrics</i> (B*)		Abundant	13.200
	5/21/2019	8:15		<i>Karlodinium veneficum</i> (T)		Common	0.100
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/6/2019	8:35	Surfc	<i>Chaetoceros</i> spp. (T)		Common	0.163
				<i>Heterocapsa rotundata</i> (B)		Present	
	5/13/2019	8:43		<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	

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<b>Indian River</b>							
<u>White Creek</u>							
IR32: Holly Terrace Acres Canal Dead End, White Creek							
	5/20/2019	8:25	Surfc	<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Common	0.175
				<i>Kryptoperidinium foliaceum</i> (B)		Common	0.138
				<i>Peridinium</i> sp. (B)	25um flat green	Present	
	5/29/2019	8:18		<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Common	0.100
				<i>Prorocentrum minimum</i> (T)		Present	
				<i>Proto-peridinium quinquecorne</i> (B)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
<b>Little Assawoman Bay</b>							
<u>Dirickson Creek</u>							
LA03: Mulberry Landing							
	4/16/2019	6:41	Surfc	<i>Karlodinium veneficum</i> (T)		Common	0.225
				<i>Prorocentrum minimum</i> (T)		Present	
	5/7/2019	7:18		<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/21/2019	7:13		<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Common	0.200
LA09: Dirickson Creek at Road 381 bridge.							
	4/16/2019	7:56	Surfc		No HABs found		
	5/7/2019	8:01		<i>Chaetoceros</i> spp. (T)		Common	0.100
				<i>Gymnodinium aureolum</i> (B)		Present	
				<i>Gyrodinium instriatum</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/21/2019	8:05		<i>Gyrodinium instriatum</i> (B)		Many	3.300
				<i>Heterosigma akashiwo</i> (T)		Present	
				<i>Kryptoperidinium foliaceum</i> (B)		Present	
				<i>Scrippsiella</i> sp. (B)		Present	
				<i>V. small, &lt;5 um centrics</i> (B*)		Abundant	11.000
<u>Jefferson Creek</u>							
SB10E: Russell Canal east dead end							
	4/16/2019	8:03	Surfc	<i>Spirulina</i> spp (B*)		Abundant	10.000
	5/7/2019	8:02		<i>Akashiwo sanguinea</i> (T)		Present	
				<i>Karlodinium veneficum</i> (T)		Present	
	5/14/2019	8:05		<i>Heterosigma akashiwo</i> (T)		Present	
	5/21/2019	7:53		<i>Karlodinium veneficum</i> (T)		Common	0.113
				<i>Pleurochrysis carterae</i> (B*)		Abundant	35.600
	5/28/2019	7:50		<i>Akashiwo sanguinea</i> (T)		Present	
				<i>Heterocapsa rotundata</i> (B)		Present	
				<i>Karlodinium veneficum</i> (T)		Common	0.500
SB10W: Russell Canal west dead end							
	4/16/2019	8:23	Surfc	<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	
	5/7/2019	8:17		<i>Karlodinium veneficum</i> (T)		Present	
				<i>Prorocentrum minimum</i> (T)		Present	

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<b>Little Assawoman Bay</b>							
<u>Jefferson Creek</u>							
SB10W: Russell Canal west dead end							
	5/7/2019	8:17	Surfc	<i>V. small, &lt;5 um centrics (B*)</i>		Abundant	11.000
	5/14/2019	8:21		<i>Amphidinium spp. (T)</i>		Present	
				<i>Gyrodinium instriatum (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Common	0.113
				<i>Karlodinium veneficum (T)</i>		Common	0.125
				<i>Scrippsiella sp. (B)</i>		Present	
	5/21/2019	8:10		<i>Chaetoceros spp. (T)</i>		Common	0.125
				<i>Karlodinium veneficum (T)</i>		Common	0.188
	5/28/2019	8:05		<i>Karlodinium veneficum (T)</i>		Common	0.275
<u>Little Assawoman Bay</u>							
LA46: Fenwick Island Tide Gauge							
	4/16/2019	8:00	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/7/2019	7:30		<i>Heterosigma akashiwo (T)</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							
	4/10/2019	9:13	Surfc	<i>Chaetoceros spp. (T)</i>		Common	0.842
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Common	0.183
				<i>Heterocapsa triquetra (B)</i>		Common	0.158
	4/25/2019	9:25		<i>Amphidinium spp. (T)</i>		Present	
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Many	2.860
				<i>Heterocapsa triquetra (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Many	4.400
				<i>Karlodinium veneficum (T)</i>		Many	1.540
				<i>Kryptoperidinium foliaceum (B)</i>		Many	1.100
				<i>Prorocentrum minimum (T)</i>		Common	0.213
	4/30/2019	9:09		<i>Amphidinium spp. (T)</i>		Present	
				<i>Dinophysis acuminata (T)</i>		Present	
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Heterosigma akashiwo (T)</i>		Many	4.180
				<i>Karlodinium veneficum (T)</i>		Many	2.640
				<i>Oxyrrhis marina (B)</i>		Many	7.770
				<i>Prorocentrum minimum (T)</i>		Common	0.113
	5/7/2019	9:35		<i>Karlodinium veneficum (T)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>V. small, &lt;5 um centrics (B*)</i>		Abundant	19.800
	5/13/2019	9:29		<i>Chaetoceros spp. (T)</i>		Common	0.100
				<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Kryptoperidinium foliaceum (B)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Present	
				<i>Skeletonema spp. (B*)</i>		Abundant	17.600

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	Date	Time	Sample	Name	Comment if	Abundance	MC/L
<u>Tributary</u>			<u>Depth</u>		<u>ID uncertain</u>		
<u>Site</u>							
<b>Rehoboth Bay</b>							
<u>Bald Eagle Creek</u>							
RB64: Torquay Canal, west side of Land's End near UD Site #1							
	5/20/2019	9:03	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Many	9.680
	5/29/2019	8:47		<i>Chaetoceros spp. (T)</i>		Common	0.100
				<i>Karlodinium veneficum (T)</i>		Common	0.225
				<i>Kryptoperidinium foliaceum (B)</i>		Common	0.113
				<i>Prorocentrum triestinum (B)</i>		Present	
				<i>Scrippsiella sp. (B)</i>		Present	
<u>Guinea Creek</u>							
RB06: Guinea Creek (Winding Creek Village)							
	4/8/2019	7:51	Surfc		No HABs found		
	5/6/2019	7:19		<i>Gymnodinium aureolum (B)</i>		Present	
				<i>Heterocapsa rotundata (B)</i>		Present	
				<i>Karlodinium veneficum (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		Common	0.150
<u>Love Creek</u>							
RB34: Love Creek at Rt 24 Bridge							
	4/15/2019	10:50	Surfc	<i>Karlodinium veneficum (T)</i>		Present	
	5/6/2019	12:02		<i>Chaetoceros spp. (T)</i>		Present	
				<i>Prorocentrum minimum (T)</i>		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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