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## Great South Bay, Long Island, New York Summer Phytoplankton Identification & Monitoring Program

CERCOM, Molloy University

John Tanacredi Ph.D.

Kyle F. Maurelli

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**Center for Environmental Research and Coastal Oceans  
Monitoring**

(CERCOM)

**Molloy University**

**Great South Bay, Long Island, New York**

**Summer Phytoplankton Identification & Monitoring Program**

**Annual Inventory Report**

**2022**

FINAL REPORT

Director; **Dr. John T. Tanacredi**

Scientific Research Technical Assistant; **Mr. Kyle F. Maurelli**

Address:

132 Clyde Street

West Sayville, NY 11796

2022

Student Intern

Participation:

# **Caroline Kane**

*Earth & Environmental Studies*

*Molloy University*

Phytoplankton Collection Methodologies:

80 micron Plankton Tow Net with sample bottle attachment

## **Phytoplankton Protocol:**

1. Gather Samples
2. Make one slide per sample
3. View slides using microscope connected with computer
4. Record findings using “ Row # “ and “ Column letter “
5. Record using “ Tallies “ per species found within sample
6. Capture anything interesting “ Take Picture “
7. Duplicate pictures taken
8. Make sure measurement of species found is taken
9. Email Jennifer Maucher at [Jennifer.maucher@noaa.gov](mailto:Jennifer.maucher@noaa.gov) , include pictures, questions and names of the species you “guess” you found.

**If requested by NOAA, Jennifer will ask for a water sample from our findings.**

## 2022 Summer Plankton Tows

Total Species Identified: 25

Actinoptychus, Asterionella, Biddulphia, Chaetoceros, Coscinodiscus, Cylindrotheca, Dinophysis, Entomoneis, Fragilaria, Gonyaulax, Grammatophora, Gyrosigma, Lichmophora, Melosira, Navicula, Nitzschia, Paralia, Pleurosigma, P. lima, Protoperidinium, Rhizosolenia, Skeletonema, Striatella, Thalassionema, Triceratium

Species Identified at Each Site:

Site 1	Site 2	Site 3	Site 4	Site 5
Biddulphia	Biddulphia	Actinoptychus	Actinoptychus	Asterionella
Chaetoceros	Chaetoceros	Biddulphia	Biddulphia	Biddulphia
Coscinodiscus	Coscinodiscus	Chaetoceros	Chaetoceros	Chaetoceros
Dinophysis	Fragilaria	Cylindrotheca	Coscinodiscus	Coscinodiscus
Fragilaria	Grammatophora	Coscinodiscus	Grammatophora	Lichmophora
Grammatophora	Gyrosigma	Entomoneis	Gyrosigma	Gonyaulax
Gyrosigma	Lichmophora	Fragilaria	Lichmophora	Grammatophora
Lichmophora	Navicula	Grammatophora	Melosira	Gyrosigma
Navicula	Nitzschia	Gyrosigma	Navicula	Navicula
Nitzschia	Paralia	Lichmophora	Nitzschia	Nitzschia
Pleurosigma	Pleurosigma	Melosira	Paralia	Pleurosigma
Procentrum lima	Rhizosolenia	Navicula	Pleurosigma	Rhizosolenia
Rhizosolenia	Skeletonema	Nitzschia	Protoperidinium	Skeletonema
Striatella	Striatella	Pleurosigma	Rhizosolenia	Striatella
Thalassionema	Thalassionema	Rhizosolenia	Skeletonema	Thalassionema
	Triceratium	Skeletonema	Striatella	Triceratium
		Striatella	Thalassionema	
		Thalassionema	Triceratium	
		Triceratium		
<b>15 Species Total</b>	<b>16 Species Total</b>	<b>19 Species Total</b>	<b>18 Species Total</b>	<b>16 Species Total</b>

<b>Site #1</b>	<b>Sexton</b>
<b>Site #2</b>	<b>Ocean Beach</b>
<b>Site #3</b>	<b>Ocean Bay Park</b>
<b>Site #4</b>	<b>Sailors Haven</b>
<b>Site #5</b>	<b>Cherry Grove</b>