

Algal Conditions in New Jersey Estuarine and Coastal Waters  
Week of July 24, 2006

TO: Distribution

FROM: Bill Heddendorf, Environmental Specialist  
Bureau of Marine Water Monitoring

DATE: July 27, 2006

SUBJECT: Report of Algal Conditions in New Jersey Coastal Waters  
Week of July 24, 2006

Samples were collected by the USEPA helicopter and analyzed at the NJDEP Bureau of Marine Water Monitoring's Leeds Point Laboratory.

**Raritan/Sandy Hook Bay Area**

The waters of Raritan Bay and Sandy Hook Bay were generally clear with low concentrations of *Scrippsiella trochoidea*. No toxic species were detected.

**New Jersey Coastal Area**

The ocean waters from Long Branch to Manasquan are generally clear with low concentrations of *Eucampia zodiacus*. The ocean waters from Ship Bottom to Cape May were generally clear with sparse algal concentrations. No toxic species were detected.

**Barnegat Bay Area**

The waters of Barnegat Bay from Toms River to Manahawkin had sparse algal concentrations with significant amounts of detritus. No toxic species detected in any samples from Barnegat Bay.

**Great Bay**

The waters of Great Bay are generally clear with sparse algal concentrations. No toxic species were detected.

**Great Egg Harbor**

The waters of the Great Egg Harbor had low concentrations of *Pleurosigma sp.* with significant amounts of detritus. No toxic species were detected.

**Delaware Bay/Capeshore Area**

The waters of the Delaware Bay near Dias Creek were experiencing a mild bloom of *Prorocentrum minimum* (Cell count of 780 cells/ml). No sample was collected near the mouth of the bay because of a heavy fog. No toxic species were detected.

**\*No samples collected in the New Jersey Coastal Waters were found to contain the Paralytic Shellfish Poisoning species *Alexandrium spp.***

**NJDEP Leeds Point Laboratory  
Phytoplankton Data Sheet**

**Date:** 07/26/2006

**Collector:** EPA

Station #	Time	Water Temp.	Chlorophyll (ug/l)	Dominant Species	Toxic Species*
26A	0817	23.8	5.89	<i>Scrippsiella trochoidea</i>	None present
906A	0823	23.8	7.99	<i>Scrippsiella trochoidea</i>	None present
A11A	0835	19.4	1.26	<i>Eucampia zodiacus</i>	None present
A24A	0853	18.8	2.52	<i>Eucampia zodiacus</i>	None present
1605A	0901	24.7	10.51	Sparse algal concentrations Significant amounts of detritus	None present
1651D	0916	25.0	10.93	Sparse algal concentrations Significant amounts of detritus	None present
1670D	0925	24.4	9.25	Sparse algal concentrations Significant amounts of detritus	None present
1703C	1012	25.9	9.67	Sparse algal concentrations Significant amounts of detritus	None present
A54B	1016	22.2	3.36	Sparse algal concentrations	None present
1800B	1022	25.1	3.36	Sparse algal concentrations	None present
1818D	1026	25.1	2.94	Sparse algal concentrations	None present
2100A	1034	25.6	4.20	Sparse algal concentrations	None present
2720B	1054	25.7	13.03	Low concentrations of <i>Pleurosigma sp</i> Significant amounts of detritus	None present
A85A2	1059	23.4	2.10	Sparse algal concentrations	None present
3826A				No Sample	No Sample
3895E	1130	26.9	15.56	Mild bloom of <i>Prorocentrum minimum</i> (Cell count of 780 cells/ml)	None present

- **Toxic Species = toxic species associated with shellfish safety including; *Prorocentrum lima.*, *Alexandrium spp.*, *Dinophysis spp.*, and *Pseudonitzschia spp.***

