Algal Conditions in New Jersey Estuarine and Coastal Waters Week of July 10, 2006

TO: Distribution

FROM: Bill Heddendorf, Environmental Specialist

Bureau of Marine Water Monitoring

DATE: July 13, 2006

SUBJECT: Report of Algal Conditions in New Jersey Coastal Waters

Week of July 10, 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 are experiencing a mild bloom of mixed diatoms consisting mostly of *Eucampia zodiacus*. No toxic species were detected.

New Jersey Coastal Area

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

Delaware Bay/Capeshore Area

The waters of the Delaware Bay had low concentrations of algal species dominated by *Prorocentrum minimum*. 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: 06/12/2006

Collector: **EPA**

Station #	Time	Water Temp.	Chlorophyll (ug/l)	Dominant Species	Toxic Species*
26A	08:55	20.6	14.72	Eucampia zodiacus	None present
906A	09:02	21.9	21.44	Eucampia zodiacus	None present
A11A	09:17	17.6	5.05	Eucampia zodiacus	None present
A24A	09:38	15.5	3.78	Sparse algal concentrations	None present
1605A	10:32	25.2	12.61	Sparse algal concentrations Significant amounts of detritus	None present
1651D	10:49	25.2	10.93	Sparse algal concentrations Significant amounts of detritus	None present
1670D	10:58	24.4	9.25	Sparse algal concentrations Significant amounts of detritus	None present
1703C	11:03	25.8	7.15	Sparse algal concentrations Significant amounts of detritus	None present
A54B				No Sample	No Sample
1800B	11:08	24.0	3.36	Sparse algal concentrations	None present
1818D	11:12	22.3	2.94	Sparse algal concentrations	None present
2100A	11:17	24.1	3.36	Sparse algal concentrations	None present
2720B	11:35	24.9	2.52	Sparse algal concentrations	None present
A85A2				No Sample	No Sample
3826A	12:06	21.0	10.09	Low concentration of Prorocentrum minimum	None present
3895E	12:37	26.7	37.42	Sparse algal concentrations Significant amounts of detritus	None present

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

