

# UPDATE OF NY BIGHT MONITORING PROGRAM

**July 28 - August 3, 2001**

**NY Bight Sampling has been as follows:**

July 30	NY/NJ Harbor Complex	Overflight
July 31	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
August 2	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	NYB20's, JC14, JC27, JC41, JC53
August 3	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69, JC75, JC85, JC90

**Projected Activities for Next Week:**

August 4	NY/NJ Harbor Complex	Overflight
August 6	NY/NJ Harbor Complex	Overflight
August 7	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
August 8	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
August 9	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	NYB20's, JC14, JC27, JC41, JC53
August 10	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69, JC75, JC85, JC90
August 11	NY/NJ Harbor Complex	Overflight

## **Floatables**

The New York/New Jersey Harbor Complex was monitored for floatables a total of four times from July 28 - August 3, 2001. The Harbor Complex was clear of significant floatables on July 30, August 2, and August 3. Floatable flights were not conducted on July 28 or August 8 due to mechanical problems with the helicopter.

On July 31, a small slick, approximately 300 meters was reported in Newark Bay. A slick, approximately 1000 meters was reported near the Verrazano Bridge. Both slicks consisted of wood and garbage. All slicks were reported to the Army Corps of Engineers and cleanups were conducted as necessary.

## **Bacteria**

Bacteriological samples were collected along the Long Island coast, from Rockaway Point (LIC01) to Shinnecock Inlet East (LIC28), on July 31. All samples were tested for fecal coliform (FC) and enterococcus bacteria. Samples were not collected along the New Jersey Coast due to mechanical problems with the helicopter.

Along the Long Island coast, the highest FC count, 50 FC/100ml, occurred at West Hampton Beach (LIC25). The two highest enterococcus count, 45 and 34 enterococci/100ml, occurred at Shinnecock Inlet East (LIC28) and Great South Beach (LIC18), respectively.

The EPA criteria for enterococcus, 35 enterococci/100ml, is based on a geometric mean of five samples collected over a 30 day period. The EPA single sample maximum criteria is 104 enterococci/100ml. Dr. Robert Nuzzi of the Suffolk County Department of Health Services was notified of the high count.

## **Phytoplankton**

Surface water samples were collected for phytoplankton analyses along the New Jersey coast on July 25. Analyses were conducted by NJDEP. This information was not available for last week's report.

Sparse algal concentrations were detected at Monmouth Beach, Bradley Beach, and Seaside Heights. Low concentrations of mixed diatoms were detected at Harvey Cedars, Strathmere and Cape May. Significant amounts of detritus were detected at all stations. No toxic species were detected.

## **Dissolved Oxygen**

Bottom water samples were collected at the Sandy Hook (NYB20), Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars on August 2. On August 3, samples were collected at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85), and Hereford Inlet (JC90) perpendiculars. Results of dissolved oxygen analysis for August 3 will be included in next week's report.

Tables 1 and 2 presents the bottom DO results for the perpendiculars sampled on August 2. The lowest DO values, 3.3 and 3.9 mg/l, occurred five and nine nautical miles off Seaside Heights, respectively. These values are typical for this time of year.

**Table 1**

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook perpendiculars (mg/l) - August 2, 2001.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB 20	5.4
4	NYB 21	5.1
6	NYB 22	6.9
7	NYB 23	5.4
8	NYB 24	8.1

**Table 2**

Dissolved Oxygen Concentrations of Bottom Water Samples at the Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars (mg/l) - August 2, 2001.

Location (Nautical Miles Offshore)	Long Branch JC 14	Belmar JC 27	Bay Head JC 41	Seaside Heights JC 53
1	4.4	6.2	3.9	5.6
3	4.4	6.8	4.0	4.0
5	5.4	4.9	5.3	3.3
7	7.9	5.1	4.5	4.4
9	7.5	7.1	5.2	3.9