

This is the sixth update of the 2006 NY Bight Monitoring Program.

UPDATE OF NY BIGHT MONITORING PROGRAM FROM July 8 – July 14, 2006

NY Bight Sampling has been as follows:

July 8	NY/NJ Harbor Complex Sandy Hook to Cape May	Overflight Overflight
July 10	NY/NJ Harbor Complex Perpendiculars	Canceled due to mechanical problems Canceled due to mechanical problems
July 11	NY/NJ Harbor Complex LI Beaches	Overflight Rockaway to Shinnecock Inlet
July 12	NY/NJ Harbor Complex New Jersey Beaches	Overflight Sandy Hook to Cape May
July 13	NY/NJ Harbor Complex Perpendiculars	Overflight JC61, JC69, JC75, JC85, JC90
July 14	NY/NJ Harbor Complex Perpendiculars	Overflight NYB20, JC14, JC27, JC41, JC53

Projected Activities for Next Week:

July 15	NY/NJ Harbor Complex	Overflight
July 17	NY/NJ Harbor Complex NJDEP Nutrient Network	Overflight Sandy Hook to Barnegat
July 18	NY/NJ Harbor Complex LI Beaches	Overflight Rockaway to Shinnecock Inlet
July 19	NY/NJ Harbor Complex New Jersey Beaches	Overflight Sandy Hook to Cape May
July 20	NY/NJ Harbor Complex NJDEP Nutrient Network	Overflight Barnegat to Delaware Bay
July 21	NY/NJ Harbor Complex Perpendiculars	Overflight NYB20, JC14, JC27, JC41, JC53
July 22	NY/NJ Harbor Complex	Overflight

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables six times from July 8 – July 14, 2006. The Harbor Complex was clear of significant floatable debris on July 11 and 13.

On July 8, a significant amount of light scattered debris running about 2 ½ miles, was reported in the Arthur Kill.

On July 12, a slick, approximately 1000 feet long by 10 feet wide, was reported in the Newark Bay. A slick, approximately one mile long by 30 feet wide, was reported in Gravesend Bay.

On July 13, an oily sheen, approximately 2 miles long by 100 feet wide, was reported in the Kill Van Kull. All sheens were reported to the US Coast Guard.

On July 14, a small patch of debris, approximately 300 square feet, was reported in the Arthur. A larger patch of debris, approximately 900 square feet, was reported in the Newark Bay. All slicks consisted of paper, plastic and some large wood. The Army Corps of Engineers conducted clean-up as necessary.

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Bacteria

On July 11, bacteriological samples were taken along the Long Island coast from Rockaway Point (LIC01) to Shinnecock Inlet East (LIC28). On July 12, samples were taken along the New Jersey coast from Sandy Hook (JC01A) to Island Beach State Park (JC59) and from Ventnor (JC77) to Cape May Point (JC99). Samples were not collected from Barnegat (JC61) to Atlantic City (JC75) due to heavy sea fog. The Long Island samples were tested for fecal coliform (FC) and enterococcus bacteria. The New Jersey samples were analyzed for enterococcus bacteria.

On July 11, along the Long Island coast, the highest fecal coliform count, 82 FC/100ml, occurred at Rockaway Beach (LIC01). The highest enterococcus count, 4 enterococci/100ml, occurred at Far Rockaway (LIC05).

On July 12, along the New Jersey coast, the highest enterococcus count, 5 enterococci/100ml, occurred at Ventnor (JC77).

All bacteriological values are below single sample maximum water quality standards.

Dissolved Oxygen

Bottom water samples were collected for dissolved oxygen (DO) analysis at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford (JC90)

perpendiculars on July 13, 2006, and at the Sandy Hook (NYB20), Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars on July 14.

Table 1 presents the bottom DO results for the perpendiculars sampled on July 13. The lowest DO concentration, 4.7 mg/l, occurred one nautical mile off Barnegat (JC61E). All values are typical for this time of year.

Tables 2 and 3 present the bottom dissolved oxygen (DO) results for the perpendiculars sampled on July 14. The lowest DO value 4.1 mg/l, occurred five nautical miles off Seaside Heights (JC53I). Values between 4 – 5 mg/l are considered borderline to healthy.

Table 1

Dissolved Oxygen Concentrations of Bottom Water Samples at the Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford (JC90) perpendiculars – July 13, 2006.

Location (Nautical Mile Offshore)	Barnegat JC 61	Beach Haven JC 69	Atlantic City JC 75	Strathmere JC 85	Hereford JC 90
1	4.7	7.0	7.9	8.2	7.8
3	4.9	7.3	7.8	8.3	7.6
5	5.5	7.3	7.4	8.3	8.1
7	5.9	7.5	7.6	8.4	8.3
9	6.4	7.5	7.5	8.4	8.1

Table 2

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook Perpendicular (mg/l) – July 14, 2006.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB20	Same not collected
4	NYB21	4.9
6	NYB22	6.3
7.4	NYB23	6.1
8.6	NYB24	6.3

Table 3

Dissolved Oxygen Concentrations of Bottom Water Samples at the Long Branch (JC14), and Belmar (JC27), Bay Head (JC 41) and Seaside Heights (JC53) Perpendiculars (mg/l) – July 14, 2006.

Location (Nautical Miles Offshore)	Long Branch JC 14	Belmar JC 27	Bay Head JC 41	Seaside Heights JC 53
1	4.3	4.9	4.8	4.3
3	5.0	5.1	5.8	4.9
5	4.8	4.9	5.8	4.1
7	6.5	5.5	5.8	5.2
9	6.9	6.8	6.1	6.3