

UPDATE OF NY BIGHT MONITORING PROGRAM

August 11 - 17, 2001

NY Bight Sampling has been as follows:

August 11	NY/NJ Harbor Complex	Overflight
August 13	NY/NJ Harbor Complex	Overflight
August 14	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
August 15	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Ventnor City
August 16	NY/NJ Harbor Complex	Overflight
	NJDEP 200 Station Network	Sandy Hook to Barnegat
August 17	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69

Projected Activities for Next Week:

August 18	NY/NJ Harbor Complex	Overflight
August 20	NY/NJ Harbor Complex	Overflight
	NJDEP 200 Station Network	Barnegat to Delaware River
August 21	NY/NJ Harbor Complex	Overflight
	Long Island Beaches	Rockaway to Shinnecock Inlet
August 22	NY/NJ Harbor Complex	Overflight
	New Jersey Beaches	Sandy Hook to Cape May
August 23	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	NYB20's, JC14, JC27, JC41, JC53
August 24	NY/NJ Harbor Complex	Overflight
	NJ Perpendiculars	JC61, JC69, JC75, JC85, JC90

Floatables

The New York/New Jersey Harbor Complex was monitored for floatables a total of six times from August 11 - 17, 2001. The Harbor Complex was clear of significant floatables on August 13 - 17, 2001.

On August 11, an oily sheen approximately one mile long was reported in the Kill Van Kull. The oily sheen was reported to the US Coast Guard and cleanup was conducted as necessary.

Bacteria

Bacteriological samples were collected along the Long Island coast, from Rockaway Point (LIC01) to Shinnecock Inlet East (LIC28), on August 14. Samples were collected along the New Jersey Coast, from Sandy Hook (JC01A) to Ventnor City (JC77), on August 15. All samples were tested for fecal coliform (FC) and enterococcus bacteria.

Along the Long Island coast, the highest FC count, 17 FC/100ml, occurred at Far Rockaway (LIC05). The highest enterococcus count, 5 enterococci/100ml, occurred at Atlantic Beach (LIC07).

Along the New Jersey coast, the highest FC count, 34 FC/100ml, occurred just north of Manasquan Inlet (JC35). The highest enterococcus count, 20 enterococci/100ml, occurred at Island Beach State Park (JC57) and Atlantic City (JC75).

Ocean Beach Closures

Late Tuesday afternoon the Monmouth County Health Department made the decision to close all twenty-one beaches in Spring Lake. The beaches were affected by the stormwater discharge from Wreck Pond at the south end of Spring Lake and the currents appeared to be carrying contaminated stormwater to the beaches north of the pond discharge. Four of those closings were based on actual elevated bacteria levels and the other seventeen closings were precautionary.

Only Brown, York, Washington and Union Avenue beaches in Spring Lake were closed again on Wednesday. Brown and York Avenue beaches were still closed on Thursday. All ocean beaches were opened on Friday, August 17.

NJDEP NEPPS

As part of our Performance Partnership Agreement with NJDEP, surface water samples were collected at 20 out of 41 stations from Sandy Hook to Cape May, and in Delaware Bay on August 16. The samples will be analyzed by NJDEP for chlorophyll, salinity, nitrate, nitrite, ortho-phosphate, ammonia, total nitrogen, and total suspended solids. Samples were also collected for temperature and dissolved oxygen analysis, which was completed in the field and by our Edison Laboratory, respectively. The remaining samples will be collected on Monday. The 41 stations are part of NJDEP's 200 Station Network.

Dissolved Oxygen

Portions of the Sandy Hook (NYB20), Long Branch (JC14), Belmar (JC27), Bay Head (JC41) and Seaside Heights (JC53) perpendiculars were sampled on August 10. These results were not available for last week's report.

Tables 1 and 2 present the bottom dissolved oxygen (DO) results for the perpendiculars sampled on August 10. The lowest DO value, 3.4 mg/l, occurred three nautical miles off Bay Head.

On August 17, bottom water samples were collected at the Barnegat (JC61) and Beach Haven (JC69) perpendiculars. For comparison, Table 3 presents results for August 9 and 17. Stations 1, 3, 5 and 7 nautical miles off Beach Haven and 3, 5, and 7 nautical miles off Barnegat showed an increase in DO concentrations. Stations 9 nautical miles off Barnegat and Beach Haven showed a slight decrease in DO concentrations.

All DO concentrations are typical for this time of year.

Table 1

Dissolved Oxygen Concentrations of Bottom Water Samples at the Sandy Hook perpendiculars (mg/l) - August 10, 2001.

Location (Nautical Miles Offshore)	Station	DO (mg/l)
2	NYB 20	6.8
4	NYB 21	5.9
6	NYB 22	5.7
7	NYB 23	6.8
8	NYB 24	6.8

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 10, 2001.

Location (Nautical Miles Offshore)	Long Branch JC 14	Belmar JC 27	Bay Head JC 41	Seaside Heights JC 53
1	5.8	6.1	4.1	4.2
3	8.2	5.7	5.0	3.4
5	7.2	--	5.9	--
7	--	--	--	--
9	--	--	--	--

“--“ = Samples not collected due to fog.

Table 3

Dissolved Oxygen Concentrations of Bottom Water Samples at the Barnegat (JC61), Beach Haven (JC69) perpendiculars - August 9 and 17, 2001.

Location (Nautical Miles Offshore)	Barnegat (JC61)		Beach Haven (JC69)		
	Date	8/9	8/17	8/9	8/17
1		5.8	3.7	2.4	6.8
3		3.3	4.3	2.0	2.8
5		2.1	4.1	2.3	4.7
7		3.2	4.8	2.3	2.8
9		6.7	5.3	3.0	2.8