

## Ninth update of the 2010 Helicopter Monitoring Program

### Floatables:

The New York/ New Jersey Harbor Complex was monitored five times from July 24 - 30, 2010. Typically, the New York/ New Jersey Harbor Complex is monitored six times per week; however, communication difficulties with Newark Airport on July 29, 2010 would not allow transit through Newark Airport's controlled airspace.

On July 28, 2010, a single garbage dumpster measuring 4' X 4' was located floating in the Upper Harbor. The garbage dumpster location was reported to the Army Corps of Engineers, and cleanup was conducted. The Harbor Complex was clear of significant floatables on July 24, 26, 27, and 30, 2010.

### Sampling:

Phytoplankton samples were collected along the New Jersey coast, in Raritan Bay, Sandy Hook Bay, Barnegat Bay, Great Bay, Great Egg Harbor and Delaware Bay, on July 29, 2010. Samples were delivered to the New Jersey Department of Environmental Protection (NJDEP), Bureau of Marine Water Monitoring Leeds Point Laboratory for analysis. These samples help fulfill NJDEP's commitments to the National Shellfish Sanitation Program. Results, reported by NJDEP, when completed, can be located at the following website: <http://www.state.nj.us/dep/bmw/phytoplankton.htm>. The report for the samples collected on July 29, 2010 should be available on the website next week.

NJDEP has implemented an aircraft remote sensing program for estimating chlorophyll levels in NJ's coastal waters. This program provides a valuable perspective on algal conditions and trends. To view these maps please visit the website. <http://www.nj.gov/dep/bmw/remotesensing.htm>

Bottom water samples were collected for dissolved oxygen (DO) analysis at stations located one and three miles off the coast of New Jersey. These stations are located as follows: Sandy Hook (NYB20), Long Branch (JC14), Belmar (JC27), Bay Head (JC41), Seaside Heights (JC53), Barnegat (JC61), Beach Haven (JC69), Atlantic City (JC75), Strathmere (JC85) and Hereford (JC90), on July 27<sup>th</sup>. Station NYB20 and stations ending with an "E" are approximately one nautical mile off the coast, and station NYB21 and stations ending with a "G" are approximately three nautical miles off the coast.

*Results, analyzed and reported by NJDEP, are on page 2.*

date:	7/27/2010		
Station	Time	Temp	DO
NYB20	839	14.5	4.65
NYB21	835	14.5	5.6
JC14E	849	16	5.25
JC14G	844	16.2	5.05
JC27E	900	15.8	4.2
JC27G	852	16.1	5.65
JC41E	916	16.1	3.35
JC41G	910	14.1	4.9
JC53E	932	15.8	3.3
JC53G	926	16.2	5.85
JC61E	1033	18.1	6.9
JC61G	1028	17.1	5.45
JC69E	1046	21.3	8.2
JC69G	1040	15.5	5.5
JC75E	1059	18.9	5.8
JC75G	1055	18.8	6.45
JC85E	1117	18.1	5.5
JC85G	1111	15.8	5.8
JC90E	1131	18.2	5.45
JC90G	1125	15.7	4.95
		dup	5.35
		trip	5.3

Two DO values were below 4.0 mg/L. The lowest DO value, 3.3 mg/L, occurred one nautical mile off of Seaside Heights, (station JC53E). A DO value of 3.35 mg/L occurred 1 nautical mile off of Bay Head (station JC41E). All other DO values were 4.2 mg/L or higher. These values are typical for this time of year.