



# MASSACHUSETTS WATER RESOURCES AUTHORITY

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Frederick A. Laskey  
Executive Director

October 10, 2008

Mr. Glenn Haas, Acting Commissioner  
Division of Watershed Management  
Department of Environmental Protection  
1 Winter Street  
Boston, MA 02108

Mr. Stephen Perkins, Director  
Office of Ecosystem Protection  
U.S. Environmental Protection Agency  
Water Technical Unit "SEW"  
P.O. Box 8127  
Boston, MA 02114

Re: Massachusetts Water Resources Authority, Permit Number MA0103284  
Part I.7 Quarterly Ambient Monitoring Report

Dear Mr. Haas and Mr. Perkins:

I am pleased to submit the Massachusetts Water Resources Authority's ("MWRA's") quarterly report on ambient monitoring results.<sup>1</sup> Five interpretive reports are included. Two reports detail modeling simulations for 2005 conditions (as required in Part I.7.a.(1) of MWRA's NPDES permit) using the hydrodynamic and Bays Eutrophication Model. The three other reports are a statistical evaluation of changes in fish and shellfish in tissue contaminant levels before and after the bay outfall went online, a summary of the results of MWRA's effluent and Massachusetts Bay floatables sampling, and the 2007 results of MWRA's benthic nutrient flux special study.

The quarterly ambient monitoring summary report that is required in the Contingency Plan is attached.

MWRA will provide raw monitoring data upon request. Please let me know if any of MWRA's staff can give you additional assistance regarding these reports.

Sincerely,

Michael J. Hornbrook  
Chief Operating Officer

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<sup>1</sup> Part I.7.c.iv of the permit requires "The results of all monitoring required by the ambient monitoring plan or the eutrophication model shall be reported to EPA, MADEP, OMSAP and NMFS, on a quarterly basis."

Enclosure: Five monitoring reports.

Jiang M, Zhou M. 2008. **The Massachusetts and Cape Cod Bays hydrodynamic model: 2005 simulation.** Boston: Massachusetts Water Resources Authority. Report 2008-12. 58 p.

Jiang M, Zhou M. 2008. **Massachusetts Bay Eutrophication Model: 2005 simulation.** Boston: Massachusetts Water Resources Authority. Report 2008-13. 82 p.

Kane-Driscoll S, Edwards M, Pembroke A, Nestler EC, Gurshin C. 2008. **Changes in contaminants in winter flounder, lobster, and caged mussels in Massachusetts and Cape Cod Bays and Boston Harbor: 1995-2006.** Boston: Massachusetts Water Resources Authority. Report 2008-09. 73 p.

Rex AC, Tyler C, Wu D, Liang SY. 2008. **Summary of floatables observations in Deer Island Treatment Plant effluent and at the Massachusetts Bay discharge site 2000-2007.** Boston: Massachusetts Water Resources Authority. Report 2008-08. 20 p.

Tucker J, Kelsey S, Giblin AE, Hopkinson Jr CS. 2008. **2007 Annual benthic nutrient flux monitoring report.** Boston: Massachusetts Water Resources Authority. Report 2008-14. 59 p.

**cc:**

**Environmental Protection Agency, Region I  
(EPA)**

Matthew Liebman

Todd J. Borci

Roger Janson (cover letter only)

**Massachusetts Department of Environmental  
Protection (DEP)**

Cathy Vakalopoulos

**Outfall Monitoring Science Advisory Panel**

Andrew Solow

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**EOEA**

Kathy Baskin

**Hyannis Library**

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**MWRA Library**

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**Public Interest Advisory Committee**

Patty Foley (cover letter only)

**Cape Cod Commission**

Tom Cambareri (cover letter only)