

July 23, 2003

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

Ms. Linda Murphy, 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 Ms. Murphy:

I am pleased to submit MWRA's quarterly report on ambient monitoring results.<sup>1</sup> This quarter's submission includes four new reports on monitoring the water column and fish, and one new report on modeling water quality during 1998-1999.

Additionally, earlier this quarter MWRA submitted detailed briefing packages in support of the OMSAP workshops on March 31-April 1 and June 18-19, 2003. These briefing packages are included in this submission. In early July, MWRA also submitted a report requested by OMSAP to review whether patterns in the zooplankton data could be linked to factors such as temperature and currents. The zooplankton report is not included in this mailing.

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."

Enclosures: Three packages with seven reports total, two of which have been previously submitted.

New reports:

HydroQual. 2003. [Bays Eutrophication Model \(BEM\): Model Verification for the Period 1998-1999.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-03. 318 pp.

Libby PS, Geyer WR, Keller AA, Turner JT, Borkman D, Mickelson MJ, Hunt CD, Oviatt CA. 2002. [2001 Annual Water Column Monitoring Report.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2002-22. 100 pp.

Libby PS, Mansfield AD, Keller AA, Turner JT, Borkman DG, Oviatt CA, Mongin CJ. 2002. [Semiannual water column monitoring report: February – June 2002.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2002-23. 354 pp.

Libby PS, Mansfield AD, Keller AA, Turner JT, Borkman D, Oviatt CA and Mongin CJ. 2003. [Semiannual water column monitoring report: July - December 2002.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-07. 290 pp.

Pala S, Lefkovitz L, Moore M, Schaub E. 2003. [2002 Annual fish and shellfish report.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-05. 176 pp.

Previously submitted reports:

MWRA. 2003. [Briefing for OMSAP workshop on ambient monitoring revisions, March 31-April 1, 2003.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-083. 96 pp.

MWRA. 2003. [Briefing for OMSAP workshop on ambient monitoring revisions, June 18-19, 2003.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD ms-085. 150 pp.

Not enclosed, but previously submitted: One report.

Kropp RK, Turner JT, Borkman D, Emsbo-Mattingly S, Hunt CD, Keay KE. 2003. [A review of zooplankton communities in the Massachusetts Bay/Cape Cod Bay system.](#) Boston: Massachusetts Water Resources Authority. Report ENQUAD 2003-06. 39 pp plus appendices.

**cc:**

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

Matthew Liebman  
Janet Labonte-Deshais  
Eric Hall  
Roger Janson (cover letter only)

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

Steve Lipman  
Cathy Coniaris

**Outfall Monitoring Science Advisory Panel**

Andrew Solow  
Robert Beardsley  
Norb Jaworski  
Scott Nixon  
Judy Pederson  
Michael Shiaris  
James Shine  
Juanita Urban-Rich  
Robert Kenney

**National Marine Fisheries Service**

Chris Mantzaris

**Stellwagen Bank National Marine Sanctuary**

Craig MacDonald

**EOEA**

Karl Honkonen

**Hyannis Library**

Ann-Louise Harries

**MWRA Library**

Mary Lydon

**Public Interest Advisory Committee**

Patty Foley (cover letter only)

**Cape Cod Commission**

Steve Tucker (cover letter only)