



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

1 Congress Street, Suite 1100

Boston, MA 02114-2023

September 28, 2007

Laurie Burt, Commissioner
Massachusetts Department of Environmental Protection
1 Winter Street
Boston, MA 02108

Re: 2006 Clean Water Act Section 303(d) List Approval

Dear Commissioner Burt:

Thank you for your final submittal of the 2006 Clean Water Act Section 303(d) list, Massachusetts Year 2006 Integrated List of Waters - Category 5, dated August 17, 2007. In accordance with Section 303(d) of the Clean Water Act and 40 CFR §130.7, the U.S. Environmental Protection Agency (EPA) conducted a complete review of Massachusetts' 2006 Section 303(d) list and supporting documentation. Based on this review, EPA has determined that Massachusetts' 2006 Section 303(d) list of water quality limited segments still requiring total maximum daily loads (TMDLs) meets the requirements of §303(d) of the Clean Water Act (CWA) and EPA's implementing regulations. Therefore, EPA hereby approves Massachusetts' decision to include the waters in Category 5, on its Section 303(d) list, as well as Massachusetts' decision to remove specific waters from the 2006 Section 303(d) list.

Massachusetts' 2006 Section 303(d) list includes a list of those waters for which technology-based and other required controls for point and nonpoint sources are not stringent enough to attain or maintain compliance with the State's Water Quality Standards. The submittal presents Massachusetts' TMDL strategy which describes a priority setting approach for which TMDLs will be completed and submitted over time. The statutory and regulatory requirements, and EPA's review of Massachusetts' compliance with each requirement, are described in detail in the enclosed approval document.

Massachusetts completed a public participation process for the 2006 Section 303(d) list during which the public was given the opportunity to review and comment on the Section 303(d) list. As a result of this effort, Massachusetts has considered public comments in the development of the final list. A summary of the public comments and Massachusetts' response to those comments were included in the August 17, 2007 submittal.

I would like to thank your staff for their assistance in working with my staff in finalizing the 2006 Section 303(d) list. We look forward to continued cooperation with MassDEP in implementing the requirements under Section 303(d) of the Clean Water Act. Please feel free to contact me or Mike Hill at 617-918-1398, if you have any questions or comments on our review.

Sincerely,

/s/

Stephen S. Perkins, Director
Office of Ecosystem Protection

Enclosure

cc: Arleen O'Donnell, MassDEP
Glenn Haas, MassDEP
Rick Dunn, MassDEP
Arthur Johnson, MassDEP
Ann Williams, EPA
Steve Silva, EPA
Mike Hill, EPA

EPA - NEW ENGLAND'S REVIEW OF MASSACHUSETTS 2006 SECTION 303(d) LIST

I. INTRODUCTION

Section 303(d) of the Clean Water Act (CWA) and the implementing regulations at 40 CFR 130.7 require states to identify those water bodies that are not expected to meet surface water quality standards after the implementation of technology-based controls and to prioritize and schedule them for the development of a total maximum daily load (TMDL). A TMDL establishes the maximum amount of a pollutant that may be introduced into a water body and still ensure attainment and maintenance of water quality standards. Furthermore, a TMDL must also allocate that acceptable pollutant load among all potential sources.

EPA has conducted a complete review of Massachusetts' 2006 Section 303(d) list and supporting documentation and information and, based on this review, EPA has determined that Massachusetts' list of water quality limited segments (WQLSs) still requiring total maximum daily loads (TMDLs) meets the requirements of Section 303(d) of the Clean Water Act and EPA's implementing regulations. Therefore, by this order, EPA hereby approves Massachusetts' 2006 final Section 303(d) list, submitted to EPA on August 17, 2007 as part of its final *Massachusetts Year 2006 Integrated List of Waters: Final listing of the condition of Massachusetts' waters pursuant to Sections 303(d) and 305(b) of the Clean Water Act* (Integrated List).

Massachusetts formulated its list utilizing EPA's *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d) and 305(b) of the Clean Water Act*. Thus, waters listed in Category 5 represent the §303(d) list and are to be reviewed and approved by the EPA. The remaining four categories are submitted in fulfillment of the requirements under Section 305(b). The integrated listing format allows states to provide the status of all assessed waters in a single multi-part list. States choosing this option may list each water body or segment thereof in one of five of the following categories:

- 1) All designated uses are supported, no use is threatened;
- 2) Available data and/or information indicate that some, but not all of the designated uses are supported;
- 3) There is insufficient available data and/or information to make a use support determination;
- 4) Available data and/or information indicate that at least one designated use is not being supported or is threatened, but a TMDL is not needed;
 - 4a) A state developed TMDL has been approved by EPA or a TMDL has been established by EPA for any segment-pollutant combination;
 - 4b) Other required control measures are expected to result in the attainment of an applicable water quality standard in a reasonable period of time;
 - 4c) The non-attainment of any applicable water quality standard for the segment is the result of pollution and is not caused by a pollutant; and
- 5) Available data and/or information indicate that at least one designated use is not being

supported or is threatened, and a TMDL is needed.

The Integrated List presents the individual categories of Massachusetts' waters for the 2006 CWA listing cycle along with pertinent supporting documentation on how the lists were derived. An overview of the Massachusetts Water Quality Management Program is provided along with a brief description of the Surface Water Quality Standards (WQS). Finally, the methodology employed for assessing and listing the waters is summarized for each of the uses designated in the WQS.

The purpose of this review document is to describe the rationale for EPA's approval of Massachusetts' 2006 §303(d) list. The following sections identify key elements to be included in the list submittal based on the CWA and EPA regulations (see 40 CFR §130.7). EPA's review of Massachusetts' §303(d) list and related information is based on an analysis of whether Massachusetts reasonably considered existing and readily available water quality-related data and information, and reasonably identified waters required to be listed.

II. STATUTORY AND REGULATORY BACKGROUND

Identification of Water Quality Limited Segments for Inclusion on the Section 303(d) List

Section 303(d)(1) of the Act directs states to identify those waters within their jurisdiction for which effluent limitations required by section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard, and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The Section 303(d) listing requirements apply to waters impaired by point and/or non-point sources, pursuant to EPA's long-standing interpretation of Section 303(d).

EPA regulations provide that states do not need to list waters where the following controls are adequate to implement applicable water quality standards: (1) technology-based effluent limitations required by the Act, (2) more stringent effluent limitations required by federal, state or local authority, and (3) other pollution control requirements required by state, local or federal authority. See 40 CFR §130.7(b)(1).

Consideration of Existing and Readily Available Water Quality-Related Data and Information

In developing Section 303(d) lists, states are required to assemble and evaluate all existing and readily available water quality-related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters: (1) waters identified as partially meeting, or not meeting, designated uses, or as threatened, in the state's most recent section 305(b) report; (2) waters for which dilution calculations or predictive modeling indicate non-attainment of applicable standards; (3) waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions; and (4) waters identified as impaired or threatened in any Section 319 non-point assessment submitted to EPA. See 40 CFR §130.7 (b)(5). In addition to

these minimum categories, states are required to consider any other data and information that is existing and readily available. EPA's *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d) and 305(b) of the Clean Water Act* describes categories of water quality-related data and information that may be existing and readily available. While states are required to evaluate all existing and readily available water quality-related data and information, states may decide to rely, or not rely, on particular data or information in determining whether to list particular waters.

In addition to requiring states to assemble and evaluate all existing and readily available water quality-related data and information, EPA regulations at 40 CFR §130.7(b)(6) require states to include as a part of their submissions to EPA, documentation to support decisions to rely on particular data and information and decisions to list or not list waters. Such documentation needs to include, at a minimum, the following information: (1) a description of the methodology used to develop the list; (2) a description of the data and information used to identify waters; (3) a rationale for any decision to not use any existing and readily available data and information for waters described in 130.7(b)(5); and (4) any other reasonable information requested by the Region.

Priority Ranking

EPA regulations codify and interpret the requirement in Section 303(d)(1)(A) of the Act that states establish a priority ranking for listed waters. The regulations at 40 CFR §130.7(b)(4) require states to prioritize waters on their Section 303(d) lists for TMDL development, and also to identify those water quality limited segments (WQLSs) targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters. See Section 303(d)(1)(A). As long as these factors are taken into account, the Act provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitat, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities. See 57 Fed. Reg. 33040, 33044-45 (July 24, 1992).

III. REVIEW OF MASSACHUSETTS' 303(d) SUBMISSION

EPA New England reviewed Massachusetts' Final 2006 Section 303(d) list dated August 17, 2007. The submittal includes the components identified below.

1. Massachusetts Year 2006 Integrated List of Waters: Final listing of the condition of Massachusetts' waters pursuant to Sections 303(d) and 305(b) of the Clean Water Act
 - a. Introduction
 - b. Key Elements of the Massachusetts Water Quality Management Program
 - c. Watershed-based Monitoring, Assessment and Implementation
 - d. The Total Maximum Daily Load (TMDL) Program
 - e. The Wastewater Discharge Permitting and Stormwater Program

- f. The Water-withdrawal Permitting Program
- g. The Nonpoint Source Program
- h. The State Revolving Fund (SRF) Program
- i. The Massachusetts Surface Water Quality Standards
- j. Assessment and Listing Methodology
- k. Sources of Information
- l. Assessment Procedure
- m. Individual Use Assessments
- n. Integrated List Development
- o. Bibliography
- p. Category 1 Waters – “Waters attaining all designated uses”
- q. Category 2 Waters – “Attaining some uses; other uses not assessed”
- r. Category 3 Waters – “No uses assessed”
- s. Category 4a Waters – “TMDL is completed”
- t. Category 4b Waters – “Waters expected to attain all designated uses through pollution control measures other than TMDLs”
- u. Category 4c Waters – “Impairment not caused by a pollutant”
- v. Category 5 Waters – Massachusetts 2006 CWA 303(d) List “Waters requiring a TMDL”
- w. Appendix 1 – Impairment causes appearing in Categories 4 and 5 of the Integrated List
- x. Appendix 2 – Waters covered by TMDLs
- y. Appendix 3 – Water Body segments and Integrated List categories by major watershed

Public Review of Massachusetts’ 2006 Section 303(d) List

Massachusetts conducted a public participation process in which it provided the public the opportunity to review and comment on the 2006 draft CWA §303(d) list. On June 7, 2006, the *Proposed Massachusetts Year 2006 Integrated List of Waters* was noticed in the *Massachusetts Environmental Monitor*. It was also posted on the Massachusetts Department of Environmental Protection’s (MassDEP) website and provided directly to over 50 different watershed associations and other public interest groups. The document was also available at MassDEP’s Worcester office and at MassDEP’s Regional Service Center. The public comment period ended on August 4, 2006.

MassDEP received a total of eight comment letters on the Proposed Massachusetts Year 2006 Integrated List of Waters. MassDEP revised the list based on comments received during the public comment period. EPA has reviewed Massachusetts’ responses and concludes that Massachusetts has adequately responded to the comments.

IV. ANALYSIS OF MASSACHUSETTS’ SUBMISSION

EPA has determined that Massachusetts’ 2006 Section 303(d) submittal addresses each of the requirements specified in Section 303(d) of the CWA and EPA’s implementing regulations 40

CFR §130.7. Specifically, Massachusetts' 2006 Section 303(d) list identifies all known WQLS and associated pollutants that still require development of TMDLs. The submittals provide a discussion of priority ranking and identification of targeted waters where TMDL efforts are either currently underway or will soon commence. Also, Massachusetts has provided a detailed listing methodology that describes the process Massachusetts used to develop the 2006 list including specific details of how Massachusetts conducts water quality assessments. The methodology describes sources of readily available water quality-related data and information used, as well as Massachusetts' rationale for not using certain information to make Section 303(d) listing decisions.

Identification of Waters and Consideration of Existing and Readily Available Water Quality-Related Data and Information

EPA reviewed Massachusetts' submission, and has concluded that Massachusetts developed its Section 303(d) list in compliance with Section 303(d) of the Act and 40 CFR §130.7. EPA's review is based on its analysis of whether Massachusetts reasonably considered existing and readily available water quality-related data and information and reasonably identified waters required to be listed.

Massachusetts generated the 2006 Section 303(d) list as a subset of its *Massachusetts Year 2006 Integrated List of Waters*. The Integrated List satisfies Massachusetts' obligation to report the status of water quality of Massachusetts water bodies as required by Section 305(b) of the Act. The Massachusetts 2006 Integrated List is comprised of five categories of waters that are consistent with the suggested categories in EPA's *2006 Integrated Water Quality Monitoring and Assessment Report Guidance*. Category 5 of the 2006 Integrated List represents Massachusetts' 2006 Section 303(d) list and this is the category that EPA is approving.

Massachusetts developed the 2006 §303(d) list (Category 5) by updating the 2004 §303(d) list using all §305(b) water quality assessments that have been completed since the 2004 §303(d) list was published. Previously unlisted water bodies that were determined to be impaired for one or more uses were added to the 2006 §303(d) list unless data show that the impairment was not a result of a pollutant. Determinations of impairments were based on valid monitoring data and/or evaluative information that were collected and determined to be sufficient to make §303(d) listing judgments. Examples of waters that were listed based solely on evaluative information include all freshwaters covered under the statewide fish consumption advisory due to mercury pollution, most coastal segments where shellfish beds are closed for harvesting, and waters where Rapid Biomonitoring Protocol (RBP) level II assessments indicate severe impairment.

All of the new §305(b) water quality assessments relied upon for the 2006 Section 303(d) list were used in the development of the integrated list. Since the 2004 §303(d) list was essentially updated to reflect new data, any water body and pollutant that was previously listed on the 2004 §303(d) list and for which a new §305(b) assessment had not yet been conducted is included on the 2006 §303(d) list.

While performing assessments, Massachusetts determined that it had insufficient information to

identify threatened waters for the purpose of §303(d) listing. Massachusetts reported that it lacked the necessary water quality data to predict future trends in water quality and identify waters that are currently in attainment but that are expected to be in non-attainment by April 2006.

In preparing the 2006 §303(d) list, Massachusetts used all existing and readily available water quality-related data and information including those sources identified in 40 CFR §130.7(b)(5): (i) most recent §305(b) report; (ii) dilution calculations and predictive models; (iii) water quality problems reported by local, state, or federal agencies; members of the public; or academic institutions; and (iv) Section 319 non-point source assessments. Massachusetts relied on these and additional sources of information (identified in Part 1 of the integrated list) to prepare the individual watershed assessment reports which together with the 2004 §303(d) list provide the basis for compiling the 2006 §303(d) list. Following is a brief description of the sources used by Massachusetts to prepare the 2006 §303(d) list including those sources identified in 40 CFR §130.7(b)(5).

Consistent with the 2006 EPA Integrated Listing guidance, the 2006 Integrated List represents an update of the 2004 submittal based, primarily, on new assessments completed for the Farmington, Westfield, Concord (SuAsCo) and Taunton watersheds and the South Coastal drainage areas. Changes to waters in watersheds other than these are few in number and are documented in the Integrated List. A complete list of the MassDEP watershed assessments embodied in the 2006 categorization of waters can be found in the Bibliography. Appendix 1 summarizes all of the changes to the Integrated List; Appendix 2 indicates the impairments added to the Integrated List; and Appendix 3 indicates the pollutants and segments removed from the Section 303(d) list (Category 5) between the final 2004 and 2006 Integrated Lists. MassDEP added 44 water body segments, which included 126 impairments, to Category 5; and it removed 46 impairments and sixteen water body segments from Category 5, for the reasons discussed further below.

Most Recent 305(b) Report. The *Massachusetts Year 2006 Integrated List of Waters* represents Massachusetts' 2006 §305(b) report. As discussed above, the 2006 §303(d) list (Category 5) is a subset of the integrated list. Therefore, all waters that Massachusetts has determined to be impaired or threatened because of pollutants and for which a TMDL has not yet been completed are included on the 2006 §303(d) list (Category 5).

Dilution Calculations and Predictive Models. The integrated list discusses how Massachusetts considers the results of predictive models and dilution calculations in conducting use assessments. For example, Massachusetts uses dilution calculations to assess potential impairments resulting from effluent toxicity testing of point sources. Additionally, all waters which receive discharges from combined sewer overflows (CSOs) are automatically listed for pathogens even if water quality data are not available.

Water Quality Problems Reported by Local, State, or Federal Agencies; Members of the Public; or Academic Institutions. Massachusetts actively solicits external sources of information and water quality data to perform assessments. Sources of information used in

developing the 2006 §303(d) list include federal agencies, state agencies, local governments, academic institutions, and watershed associations. The following partial list of sources illustrates that Massachusetts considered information from a variety of sources to identify waters on the 2006 §303(d) list.

1. Massachusetts Division of Marine Fisheries
2. Massachusetts Division of Fisheries and Wildlife
3. Massachusetts Department of Environmental Management
4. Massachusetts DEP, Water Supply Program
5. Massachusetts DEP, Wetlands and Waterways program
6. Massachusetts DEP, Watershed Permitting Program
7. Massachusetts DEP, Wastewater Management Program
8. Massachusetts Coastal Zone Management
9. Massachusetts Department of Public Health
10. Massachusetts Water Resources Authority
11. Metropolitan District Commission
12. U.S. Environmental Protection Agency - New England Region
13. U.S. Geological Survey
14. U.S. Fish and Wildlife Service
15. Communities conducting CSO Facility Planning
16. Massachusetts Clean Lakes Program
17. Woods Hole Oceanographic Institute
18. Charles River Watershed Association
19. University of Massachusetts-Dartmouth
20. Coalition of Buzzards Bay
21. National Park Service-Cape Cod National Seashore
22. The Neponset River Watershed Association
23. NPDES Discharge Monitoring Reports

Water quality information obtained from these and other agencies or groups was considered in the development of the 2006 §303(d) list. Typically the sources of data used for assessments are cited in the individual watershed assessment reports. However, MassDEP also relied on water quality-related data and information that was submitted during the public comment period for the 2006 §303(d) list. In those cases where valid water quality-related data was provided during the public comment period and used as the basis for listing a water or pollutant on the final 2006 §303(d) list, the source of this information is identified in *Massachusetts Year 2006 Integrated List of Waters, Public Comments and Responses*.

EPA has reviewed Massachusetts' description of the data and information it considered, its methodology for identifying waters, and selected individual watershed assessment reports. EPA concludes that the Commonwealth properly assembled and evaluated all existing and readily available water quality-related data and information, including data and information relating to the categories of waters specified in 40 CFR §130.7(b)(5).

In addition, the Commonwealth provided in its listing methodology its rationale for not relying

on particular existing and readily available water quality-related data and information. In a relatively few cases, waters/pollutants were not added to the 2006 §303(d) list where some information might indicate a potential impairment but the information was determined to be insufficient for the purpose of listing on the §303(d) list. Massachusetts' rationale for not relying on available water quality-related data and information to support §303(d) listing decisions is based entirely on concerns with the quality of the data (i.e., either there was a lack of quality assurance/quality control (QA/QC) documentation provided or that the information was incomplete).

Consistent with Massachusetts' concerns over the validity of water quality data, Massachusetts also considers anecdotal information to be insufficient for the purpose of listing water bodies or pollutants on the 2006 §303(d) list. All of the data and information are reviewed, but if information does not meet the Commonwealth's listing criteria, the water body is not included on the CWA Section 303(d) list. So, where insufficient information exists, the water bodies are placed in an "alert status" which signifies that a water body is targeted for specific monitoring and follow-up assessment during the next scheduled round of monitoring for the watershed as part of the Commonwealth's ongoing watershed assessment program.

For the 2006 list, Massachusetts analyzed relevant data and information for each water body that has been assessed since the 2004 §303(d) list was published and determined whether there were sufficient, reliable data to support listing. The Commonwealth's use of this listing methodology is reasonable and consistent with EPA's regulations. The regulations require states to "assemble and evaluate" all relevant water quality-related data and information and, as discussed above, Massachusetts did so for each of its assessed water bodies. The regulations permit states to decide to not use any particular data and information as a basis for listing, provided they have a reasonable rationale in doing so. Massachusetts reviews all reasonably available data and information. Its decision to not rely on external data without adequate QA/QC documentation is reasonable, in light of the uncertainty about the reliability of such information.

EPA has reviewed the Commonwealth's rationale and has concluded that Massachusetts has reasonably used its discretion to screen unvalidated data and information. Massachusetts will continue to apply its existing analytical monitoring framework to target future monitoring activities to collect valid data and verify whether impairments exist.

Basis for Section 303(d) De-listings

Massachusetts has demonstrated, to EPA's satisfaction, good cause for not including on the 2006 Section 303(d) list certain waters that had been identified on the 2004 Section 303(d) list. Massachusetts' Section 303(d) submittal describes the basis for removing water bodies from the Section 303(d) list. Also, Massachusetts provided an accounting and tracking of every water body that was included on the 2004 list but not included on the 2006 Section 303(d) list. EPA reviewed this list and the Commonwealth's rationale for the de-listings. Water body segments were removed from the list because (1) new water quality-related information indicates that the water body is now in attainment with Water Quality Standards for uses which have been assessed; (2) the cause of the impairment was determined to be not associated with a pollutant

(e.g., related to flow alterations or exotic species); or (3) TMDLs were completed and approved by EPA. The August 17, 2007 Integrated List cover letter from MassDEP to EPA indicates the impairments and water body segments removed between the final 2004 and final 2006 Integrated Lists. In addition, a few water body segments are identified differently as a result of administrative changes made by Massachusetts during the development of the 2006 §303(d) list. Appendix 3 indicates the pollutants and segments removed from the list (Category 5) between the final 2004 and final 2006 Integrated List.

Attainment of Massachusetts Water Quality Standards. Seven water body segments and 42 impairments were removed from the 2006 §303(d) list because new water quality data and/or Department of Public Health fish consumption advisories showed attainment of the applicable water quality standards for which uses have been assessed. Massachusetts evaluated the new data and conducted use attainment assessments for these waters in accordance with the approach used for all waters and outlined in the listing methodology. EPA agrees that MassDEP has demonstrated that de-listing is appropriate for these segments/impairments based on standards being attained.

Impairments Not Related to Pollutant Loading. MassDEP has de-listed two water bodies because the impairments are not related to pollutant loading. The first, Torrey Pond, had previously been listed because of reports of excessive native macrophyte or rooted plant growth. Massachusetts conducted a review of the individual water quality assessments for the lake and determined that the rooted plant growth is not associated with pollutant loading (e.g., nutrients or sediments). Massachusetts believes that the plant growth is most likely due to the pond's natural morphometry, which typically in this type of water body includes extensive shallow areas that are conducive for rooted plant growth.

The second is a segment on the Ten Mile River, which was de-listed and placed in Category 4C because "flow alteration" is the only stressor. The segment was incorrectly listed in Category 5 in the past.

EPA agrees that if data show that no pollutant is associated with the impairment of the water body, then such water body may be de-listed. In these two cases, MassDEP has demonstrated a reasonable basis for removing the waters from the list.

Approved TMDLs. Massachusetts has de-listed seven water body segments and four additional impairments for which TMDLs have been established and approved by EPA. These waters are identified in Category 4A. Waters that remain impaired for causes other than for which the TMDLs were developed remain on the §303(d) list if the cause is a pollutant.

Administrative Changes. An additional group of water body segments are identified differently as a result of administrative changes made by Massachusetts during the development of the 2006 §303(d) list. Specifically, Massachusetts revised water body segment identification numbers for a limited number of water body segments. In all cases, these water bodies are included on the 2006 §303(d) list but with different water body identification numbers. Appendix 3 identifies these water body segments.

Waters Nominated by the Public

During the public review period, a number of water bodies were nominated for inclusion on the 2006 Section 303(d) list. Massachusetts reviewed and considered all comments, as well as all water quality related information submitted by the public and any new fish consumption health advisories. Massachusetts has documented the public comments received and the Commonwealth's responses in *Massachusetts Year 2006 Integrated List of Waters and Public Comments and Responses*. As a result of the public comments, Massachusetts added impairments/stressors to water body segments already on the list to the 2006 Section 303(d) list. Specifically, in the Charles River Watershed, nutrients were added to two segments, MA72-09_2006 and MA72-10_2006. Massachusetts also decided to not list a number of water bodies and impairments/stressors that were nominated by members of the public. The rationales for not listing specific water bodies and impairments/stressors are provided in the *Public Comment Responsiveness Document*. EPA has reviewed this document and has concluded that Massachusetts' decision, with respect to these water bodies, is sufficient for not including those water bodies identified by the public on the 2006 list.

Although MassDEP did not list all waters and/or impairments/stressors nominated by the public for inclusion on the Section 303(d) list, MassDEP did place many water body segments in Category 3, which means there is insufficient data and/or information to make a use support determination. In addition, MassDEP identified water body segments with an "alert status." This means that the water bodies may be showing some indication of water quality impairment, but there is insufficient information to place the water body segment on the Section 303(d) list. For these water bodies, the "alert status" will signify during the next assessment process that there is a water quality issue that needs to be addressed. Identifying a water body in an "alert status" does not affect its listing status.

Massachusetts' two primary reasons for not listing waters based on the information received are that (1) the external data submitted did not satisfy Massachusetts' submission requirements for using external data and/or (2) insufficient information was provided to confirm that an impairment exists and to support a §303(d) listing decision. Massachusetts' requirements for using external data are described in the listing methodology included in the draft list that was distributed for public review. The purpose of Massachusetts' requirements is to ensure that water quality-related information submitted from external sources is of sufficient quality to support listing decisions. In all cases where Massachusetts decided to not rely on external sources of information to list water bodies, the submitted information either did not provide the necessary quality assurance/quality control documentation that Massachusetts requires, or it was not comprehensive enough to support listing (e.g., an insufficient number of samples). EPA has reviewed Massachusetts' listing methodology which outlines the Commonwealth's requirements for using external data for §303(d) listing purposes. EPA believes it is appropriate for states to use discretion in establishing minimum requirements for accepting water quality-related data from external sources. Furthermore, EPA has concluded that it is reasonable to not list a water on the §303(d) list if the supporting information is not validated and it is uncertain whether the information is reflective of actual conditions. At the same time, we note that there

are a number of watershed groups that are attempting to satisfy Massachusetts' listing criteria, and have even received MassDEP's approval of their sampling protocols, but have nevertheless failed to submit data that MassDEP felt it could rely on. We strongly encourage MassDEP to do outreach to these organizations and clarify what exactly MassDEP needs in order to accept data for listing decision purposes.

As discussed more fully below, Massachusetts also found that some nutrient-related information cited or provided by the public did not provide evidence of impairment. Although Massachusetts' 2006 §303(d) list includes many water bodies with nutrients as a pollutant, Massachusetts requires additional corroborating information beyond nutrient data to determine whether an impairment exists. Massachusetts' Water Quality Standards do not include numeric nutrient criteria. Rather they contain narrative criteria that relate to "cultural eutrophication." Therefore, Massachusetts relies on responsive indicators such as dissolved oxygen or algae (or chlorophyll *a*) along with nutrient data to determine impairment status. It is very possible that a water body may have high nutrient levels, yet may not be undergoing cultural eutrophication because of site-specific factors (e.g., light limitation, retention time, and high dissolved organic matter content that may limit nutrient availability for plant growth). EPA has concluded that Massachusetts' rationale for not listing waters on the §303(d) list based solely on nutrient data is reasonable and consistent with the Commonwealth's current Water Quality Standards.

There were several comments regarding the listing of water body segments for nutrients. As discussed above, there are no numerical standards for nutrients in the Massachusetts Surface Water Quality Standards and the MassDEP does not place waters on the 303(d) list solely on the basis of nutrient concentration data. Narrative criteria for nutrients at 314 CMR 4.05 (5)(c) and the antidegradation provisions at 314 CMR 4.04(5) (both provisions from the water quality standards that were in effect at the time of the listing decision) prohibit the discharge from point sources of nutrients in amounts that would promote the accelerated growth of algae or aquatic plants ("encourage cultural eutrophication") and require best management practices for the control of nonpoint sources of nutrients. On a case-by-case basis the MassDEP will use evidence of eutrophic conditions, such as wide ranges in dissolved oxygen concentration, elevated chlorophyll *a* values, or biological surveys (in combination with nutrient concentrations) that reveal algae or plant "bloom" conditions that result in one or more impaired uses, to add waters to the 2006 303(d) list. In light of the narrative criteria, EPA believes it is reasonable for MassDEP to conclude that nutrient concentrations above normal background levels do not, in and of themselves, constitute use impairment.

Several water body segments are in need of further clarification relating to comments received during the public comment period. The first relates to a comment that requested MassDEP to include the Sudbury River on the § 303(d) list, based on data referenced in the fact sheet for the Town of Wayland's NPDES permit which, according to the commenter, demonstrated that the river is impaired for nutrients. MassDEP explained that the data did not support a conclusion that the river is impaired. EPA reviewed the information referenced by the commenter and also reviewed the most recent (2005) MassDEP assessment of the Sudbury River for Segment MA82A-04, which stretches from the confluence with Hop Brook, Wayland to the confluence with the Assabet River. The assessment concluded that the water body is supporting aquatic life use. The evaluation was based in large part on studies conducted by ENSR in July and August

2002 and July, August, and September 2003. Although there were indications of elevated levels of phosphorus and suppressed dissolved oxygen concentrations, the fish community and good survival of test organisms exposed to the river led MassDEP to conclude that aquatic life use is not currently impaired. Little chlorophyll *a* data were collected during the study to assess eutrophic conditions.

The NPDES permit for the Wayland POTW, issued in 1998, contains a phosphorus limit of 0.5 mg/l. EPA proposed phosphorus limits of 0.2 mg/l in a draft 2006 NPDES permit because of a lack of dilution in the wetland where the discharge is located. Based on sampling data collected by the permittee, phosphorus concentrations in the Sudbury River in the vicinity of the Wayland POTW appear to be moderately elevated. EPA is concerned that there may be eutrophic impacts in the river system. Hop Brook, which is just upstream of the POTW, and the Concord River, which is located downstream of this segment, are both impaired for nutrients. The proposed permit limits reflect EPA's belief that the POTW's discharge has the reasonable potential to cause or contribute to a water quality standards violation.

Notwithstanding EPA's concerns about the Wayland discharge, we believe it is reasonable for MassDEP to decline to list the segment during this listing cycle in light of the information in the 2005 assessment and in the absence of more comprehensive data that satisfy MassDEP's listing criteria. MassDEP is in the process of developing nutrient criteria on a statewide basis which may propose the use of translators such as chlorophyll *a* or secchi disk depth, or specific phosphorus concentrations, which may be useful in further assessment of the Sudbury River. While EPA is not proposing that the segment should be listed at this time, EPA recommends that the segment be evaluated in a comprehensive manner for nutrient related impacts including plant biomass assessments and chlorophyll *a* data and be placed on "alert status" as part of MassDEP's assessment process. Based on this evaluation, MassDEP can make its listing decision in a subsequent Section 303(d) list determination.

MassDEP has indicated it will continue to collect data on its five-year rotating basin schedule to assess the conditions throughout the SuAsCo watershed. Additional data were collected at multiple locations throughout the Sudbury River System in 2006 and will be used along with other available data to develop the next assessment report. Once the report is developed, it will be considered in future listing decisions. As stated above, EPA recommends that MassDEP place this segment on "alert status" for its assessment process to evaluate the existence of eutrophic conditions.

There were also several questions regarding the listing of segments for pathogens. The rationale MassDEP used, and EPA concurs with, for not including those segments on the 2006 §303(d) list for pathogens is that there were insufficient data and information, including questions concerning the quality assurance of the samples collected and sampling locations to justify placing the water body segment on the list consistent with the Commonwealth's water quality standards.

In the review of the 2006 Integrated List, EPA discussed with MassDEP a number of water body segments where data indicate elevated levels of pathogens, but the data do not meet the criteria for listing purposes (e.g., too few samples taken during a single season, lack of QA/QC, etc.).

EPA recommends that these water bodies be placed in “alert status” as part of MassDEP’s assessment process. Specifically, in the Charles River Watershed, EPA recommends that the following water bodies be placed in “alert status”: Godfrey, Milford, Chicken, Mine, Fanueil and Stony Brooks. It is MassDEP’s goal to make final listing decisions for the 2008 Integrated List of Waters based on the new Charles River Watershed Assessment report that is currently being finalized.

Similarly, in response to questions raised by the Mystic River Watershed Association, EPA recommends that Mill Brook, Malden River, Winn Brook, Little Brook, Cummings Brook, Meetinghouse Brook, Sales Creek, Shaker Glen Brook, Sickie Brook, Whipple Brook and Wellington Brook be placed on “alert status” pending the next assessment of these water bodies.

There were many issues raised by the Connecticut River Watershed Council and EPA concurs with MassDEP’s responses to the Council’s questions. Moreover, MassDEP has collected data for the Connecticut River Watershed Water Quality Assessment Report and is currently in the process of drafting the report. The new assessment will enable MassDEP to make listing decisions based on the most recent information. In the interim, EPA recommends that MassDEP place the following water bodies on “alert status:” Bloody Brook, Great Swamp, Holyoke Canal System, Ashfield Pond, and Robin Hood Lake.

Section 319 Nonpoint Source Assessments. Massachusetts has properly listed waters with non-point sources causing or expected to cause impairment, consistent with Section 303(d) and EPA guidance. Section 303(d) lists are to include all WQLSs still needing TMDLs, regardless of whether the source of the impairment is a point and/or non-point source. EPA’s long-standing interpretation is that Section 303(d) applies to waters impacted by point and/or non-point sources. In Pronsolino v. Marcus, the District Court for the Northern District of California held that Section 303(d) of the Clean Water Act authorizes EPA to identify and establish total maximum daily loads for waters impaired by non-point sources. Pronsolino v. Marcus, 91 F. Supp. 2d 1337, 1347 (N.D.Ca. 2000). This decision was affirmed by the 9th Circuit court of appeals in Pronsolino v. Nastri, 291 F.3d 1123 (9th Cir. 2002), cert. denied, 123 S. Ct. 2573 (2003). See also EPA’s 2006 Integrated Reporting Guidance.

In the development of the 2006 §303(d) list, waters identified by the Commonwealth as impaired or threatened in non-point assessments performed by the Commonwealth, in accordance with Section 319 of the CWA, were included on the §303(d) list. The Commonwealth properly listed waters with non-point sources causing or expected to cause impairment, consistent with Section 303(d) and EPA guidance. The majority of waters identified on the 2006 §303(d) list are impaired solely by non-point sources of pollution.

Massachusetts considered its state NPS Assessment Report (1989) submitted to EPA in accordance with Section 319 of the CWA, in the development of its 1992 §303(d) list. All waters identified as having potential water quality problems resulting from NPS pollution were included on the 1992 §305(b) list of impaired and threatened waters and subsequently on the 1992 §303(d) list. Most of these assessments were based on very little information, and in many cases on no water quality monitoring data at all.

These waters were then carried forward in the development of the 1994, 1996, 1998 and 2002 §303(d) lists unless new monitoring data indicated the water/pollutant was in attainment with water quality standards. NPS impaired waters remaining on the 2004 Section 303(d) list were again carried forward to the 2006 §303(d) list unless (1) new monitoring data indicated the water/pollutant was in attainment with water quality standards or (2) if it was determined that the cause of the impairment was not due to a pollutant.

Priority Ranking and Targeted Waters

EPA has also reviewed the Commonwealth's priority ranking of listed waters for TMDL development, and concludes that the Commonwealth properly took into account the severity of pollution and the uses to be made of such waters. The regulations at 40 CFR §130.7(b)(4) require states to prioritize waters on their §303(d) lists for TMDL development, and also to identify those WQLSs targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters. See CWA Section 303(d)(1)(A). As long as these factors are taken into account, the CWA provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitats, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities. See 57 Fed. Reg. 33040, 33044-45 (July 24, 1992).

Targeted Waters. The 2006 §303(d) submission identifies several targeted water bodies where TMDL work is either ongoing or planned for the near future (see page 28 of the Integrated List). These include the development of TMDLs in estuaries in Southeastern Massachusetts, Nashua River, Charles River, Sudbury River, Concord River, Kickemuit River, Shawsheen River, Merrimack River and Connecticut River. In addition, several more TMDL and monitoring projects in support of TMDL development are set out in MassDEP's Work Plan under "Restore Degraded Water Quality" at: <http://mass.gov/dep/water/priorities/sggwhome.htm#restore>. Waters targeted for TMDL development during the next 2 years reflect a variety of serious water quality problems affecting various designated uses. For many of the targeted waters the public has expressed its interest for the Commonwealth to begin TMDL development. In addition, MassDEP is working on pathogen TMDLs for all pathogen impaired water body segments in Massachusetts.

Priority Rankings. Massachusetts has established priorities for TMDL development for all listed waters, presented within the context of its watershed approach and the five year rotating basin schedule. The initial TMDL prioritization is also linked to the type of pollutant/impairment. Under the Commonwealth's watershed approach, the goal is to adhere to the following schedule for a given watershed:

- Year 1 - Information gathering/ reconnaissance
- Year 2 - Information development/monitoring
- Year 3 - Assessment/ Development of TMDLs

Year 4 - Implement control actions

Year 5 - Evaluate control actions

In order to set priorities for TMDL development MassDEP evaluated the causes and locations of impairments across the Commonwealth. The data on causes of impairments in assessed waters overwhelmingly indicates that the major causes of impairment are excess nutrients and pathogens. Nutrient impairment and its secondary effects such as low dissolved oxygen and noxious aquatic plants have been identified as the cause of impairment in approximately 41% of the Commonwealth's waters. The biggest single cause of impairment is pathogens, which has been identified as a problem in roughly 24% of the Commonwealth's assessed waters. Combined these two causes account for roughly 65% of the impairments in Massachusetts. As a result, Massachusetts has placed a high priority on these issues for TMDL development in the coming years.

Several commenters had concerns regarding the backlog of water quality assessment reports that are the basis for the Integrated List and this concern has been raised in prior comments to lists. As outlined on page 14 of the Response to Public Comments document, MassDEP has formulated a plan to be 50% caught up by the 2008 Integrated List submission and 100% by the 2010 listing cycle.

In conclusion, EPA finds the TMDL prioritization and targeting approach used by Massachusetts to be reasonable considering all factors including the large number of waters on the list and the overall pace at which TMDLs will be developed. *See EPA's Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d) and 305(b) of the Clean Water Act.* Massachusetts' watershed approach provides watershed-based priority rankings for §303(d) listed waters. In addition, it provides a framework in which meaningful priority rankings will be established for each listed water. In targeting water bodies for TMDL development, Massachusetts continues to take into account the severity of the pollution and the uses to be made of such waters. EPA expects that individual priority rankings, set in year 3 of the rotating basin schedule, will be reflected in subsequent §303(d) lists.

Any other reasonable information requested by the Regional Administrator

Massachusetts has been very responsive to any questions or comments raised by EPA - New England.

Water Bodies on Tribal Lands

EPA's approval of Massachusetts' Section 303(d) list extends to all water bodies on the list with the exception of those waters, if any, that are within Indian Country, as defined in 18 U.S.C. Section 1151. EPA is taking no action to approve or disapprove the Commonwealth's list with respect to those waters at this time. EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities under Section 303(d) for those waters.

Appendix 1

Concord Watershed – Changes in the Integrated List from 2004 to 2006

Waterbody	Segment	2004	2006	Notes
Ashland Reservoir (82003)	MA82003_2004	4c	4c	<i>(Myriophyllum heterophyllum)</i>
Assabet Brook	MA82B-17	--	2	New segment – Aesthetics supported
Assabet River (8246775)	MA82B-01_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “pathogens”) Add “flow alteration”, “cause unknown”. “Organic enrichment/low DO” {CN201.0} no longer an impairment based on 2001 assessment – TMDL is still protective.
Assabet River (8246775)	MA82B-02_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “Organic enrichment/low DO” {CN201.0}, “pathogens”, “metals”) Add “cause unknown”.
Assabet River (8246775)	MA82B-03_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “pathogens”) Add “noxious aquatic plants” {CN201.0}, “objectionable deposits”, “taste,odor,color”, “exotic species” <i>Potamogeton crispus</i> .
Assabet River (8246775)	MA82B-04_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “Organic enrichment/low DO” {CN201.0}, “pathogens”, “metals”) Add “noxious aquatic plants” {CN201.0}, “cause unknown”.
Assabet River (8246775)	MA82B-05_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “Organic enrichment/low DO” {CN201.0}, “pathogens”) Add “noxious aquatic plants” {CN201.0}, “objectionable deposits”, “taste,odor,color”, “exotic species” <i>Cabomba caroliniana</i> , <i>Potamogeton crispus</i> , <i>Trapa natans</i> .
Assabet River (8246775)	MA82B-06_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “Organic enrichment/low DO” {CN201.0}, “noxious aquatic plants” {CN201.0}, “pathogens”, “metals”, “priority organics”, “thermal modifications”, “taste,odor,color”) Add “objectionable deposits”, “exotic species” <i>Cabomba caroliniana</i> , <i>Potamogeton crispus</i> , <i>Trapa natans</i> . “Suspended solids” removed as a stressor based on 2001 assessment.
Assabet River (8246775)	MA82B-07_2004	5	5	Retained in Category 5 (“nutrients” {CN201.0}, “pathogens”) “Organic enrichment/low DO” {CN201.0} no longer an impairment based on 2001 assessment – TMDL is still protective.
Assabet River Reservoir (82004)	MA82004_2004	5	5	Retained in Category 5. (“turbidity”, “noxious aquatic plants”, “exotic species” <i>Myriophyllum spicatum</i>) Add “organic enrichment/low DO” [9/23/2004 – CN 201.0]
Bartlett Pond (82007)	MA82007_2004	4c	4c	<i>C. caroliniana</i> , <i>M. spicatum</i> , <i>P. crispus</i>
Batemans Pond (82008)	MA82008_2004	4c	4c	<i>Marsilea quadrifolia</i>
Carding Mill Pond (82015)	MA82015_2004	5	5	Retained in Category 5 (“noxious aquatic plants”, “nutrients”) Add “exotic species” (<i>Trapa natans</i> and <i>Potamogeton crispus</i>)
Cedar Swamp Pond (82016)		--	3	New segment – unassessed (listing requested during public review)
Chauncy Lake (82017)	MA82017_2004	4c	4c	<i>Myriophyllum spicatum</i> Primary and secondary contact recreation and aesthetics supported
Lake Cochituate (82020)	MA82020_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “priority organics”) Add “exotic species” (<i>Myriophyllum spicatum</i>). Primary and secondary contact recreation supported
Lake Cochituate (82125)	MA82125_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “priority organics”) Add “pathogens” and “exotic species” (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Lake Cochituate (82126)	MA82126_2004	5	5	Retained in Category 5 (“priority organics”) Add “exotic species” (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Lake Cochituate (82127)	MA82127_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “priority organics”) Add “exotic species” (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Cold Harbor Brook	MA82B-18	--	2	New segment – Aquatic life (alert status) and aesthetic uses supported

Waterbody	Segment	2004	2006	Notes
Concord River (8246500)	MA82A-07_2004	5	5	Retained in Category 5 ("metals", "pathogens", "nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>Trapa natans</i> , <i>Cabomba caroliniana</i> and <i>P. crispus</i>)
Concord River (8246500)	MA82A-08_2004	5	5	Retained in Category 5 ("metals", "nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>Trapa natans</i> , <i>Cabomba caroliniana</i>)
Concord River (8246500)	MA82A-09_2004	5	5	Retained in Category 5 ("metals", "nutrients", "pathogens"). Add "noxious aquatic plants" and "objectionable deposits"
Danforth Brook	MA82B-19	--	2	New segment – Aquatic life (alert status) and aesthetic uses supported
Denny Brook		--	3	New segment – unassessed (listing requested during public review)
Dudley Pond (82029)	MA82029_2004	5	5	Retained in Category 5 ("turbidity", "exotic species" (<i>Myriophyllum spicatum</i> and <i>P. crispus</i>) Add "organic enrichment/low DO"
Eames Brook (8248125)	MA82A-13_2004	5	5	Retained in Category 5 ("noxious aquatic plants", "cause unknown", "exotic species" <i>P. crispus</i>) Add "objectionable deposits" and "taste,odor,color"
Farm Pond (82035)	MA82035_2004	5	5	Retained in Category 5 ("noxious aquatic plants", "turbidity", "exotic species" <i>Myriophyllum spicatum</i> , <i>C. caroliniana</i> and <i>P. crispus</i>)
Fisk Pond (82038)	MA82038_2004	4c	4c	<i>M. heterophyllum</i>
Fort Meadow Reservoir (82042)	MA82042_2004	5	5	Retained in Category 5 ("nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i>) and "pesticides" (6/29/06 DPH health advisory due to chlordane in fish tissue)
Fort Pond (82043)	MA82043_2004	2	3	No uses assessed in 2001
Fort Pond Brook (8246850)	MA82B-13_2004	2	3	No uses assessed in 2001
Framingham Reservoir #1 (82044)	MA82044_2004	5	5	Retained in Category 5 ("metals", "exotic species" <i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i>)
Framingham Reservoir #3 (82046)	MA82046_2004	4c	4c	<i>Myriophyllum spicatum</i>
Gates Pond (82047)	MA82047_2004	2	3	No uses assessed in 2001
Great Meadows Pond #3 (82053)	MA82053_2004	4c	4c	<i>Trapa natans</i>
Grist Mill Pond (82055)	MA82055_2004	5	5	Retained in Category 5 ("pathogens", "nutrients", "noxious aquatic plants") Add "organic enrichment/low DO" and "exotic species" <i>P. crispus</i> , <i>T. natans</i>
Hager Pond (82056)	MA82056_2004	5	5	Retained in Category 5 ("pathogens", "nutrients", "noxious aquatic plants", "turbidity") Add "organic enrichment/low DO" and "exotic species" <i>P. crispus</i>
Heard Pond (82058)	MA82058_2004	5	5	Retained in Category 5 ("metals", "exotic species" <i>C. caroliniana</i> , <i>T. natans</i>) Add "noxious aquatic plants" and "turbidity"
Heart Pond (82059)	MA82059_2004	2	5	Added to Category 5 due to "pathogens" (see comments below).
Hocomonco Pond (82060)	MA82060_2004	5	5	Retained in Category 5 ("priority organics")
Hop Brook (8247825)	MA82A-05_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "noxious aquatic plants") "Suspended solids" removed based on 2001 assessment
Hop Brook (8247825) formerly referred to as Wash Brook	MA82A-06_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "noxious aquatic plants") "Suspended solids" removed based on 2001 assessment
Hop Brook	MA82B-20	--	2	New segment – Aquatic life (alert status) and aesthetic uses supported
Hopkinton Reservoir (82061)	MA82061_2004	5	5	Retained in Category 5 ("organic enrichment/low DO", "exotic species" <i>M. heterophyllum</i>) Primary and secondary contact recreation and aesthetics supported
Ice House Pond (82066)	MA82066_2004	3	3	
Indian Brook (8248400)	MA82A-12_2004	5	--	This segment divided into two new segments MA82A-23 and MA82A-24 (see below)
Indian Brook (8248400)	MA82A-23	5	3	New segment – formerly part of segment MA82A-12 – Unassessed in 2001
Indian Brook (8248400)	MA82A-24	5	2	New segment – formerly part of segment MA82A-12 – Removed from "cause unknown" based on 2001 assessment. Aquatic life and aesthetic uses supported

Waterbody	Segment	2004	2006	Notes
Jackstraw Brook		--	3	New segment – unassessed (listing requested during public review)
Learned Pond (82069)	MA82069_2004	2	3	No uses assessed in 2001
Little Chauncy Pond (82070)	MA82070_2004	4c	4c	<i>M. heterophyllum</i> , <i>P. crispus</i>
Long Pond (82072)	MA82072_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “nutrients”, “noxious aquatic plants”) Primary and secondary contact recreation supported
Meadow Pond (82129)	MA82129_2004	4c	4c	<i>Trapa natans</i>
Milham Reservoir (82077)	MA82077_2004	2	3	No uses assessed in 2001
Nagog Pond (82082)	MA82082_2004	2	3	No uses assessed in 2001
Nashoba Brook (8246875)	MA82B-14_2004	3	4c	Added to Category 4c due to “flow alteration”
North Brook	MA82B-21	--	2	New segment – Aquatic life and aesthetics (alert status) uses supported
North Great Meadows (82084)	MA82084_2006	--	4c	New segment – impaired by “exotic species” (<i>Trapa natans</i>)
Nutting Lake (82088)	MA82088_2004	5	5	Added “pathogens”
Pantry Brook (8247700)	MA82A-19_2004	3	5	Added to Category 5 due to “pathogens”
Piccadilly Brook		--	3	New segment – unassessed (listing requested during public review)
River Meadow Brook (8246525)	MA82A-10_2004	5	5	Retained in Category 5 (“pathogens”) Add “objectionable deposits” and “exotic species” (<i>T. natans</i>)
Rocky Pond (82095)	MA82095_2004	4c	4c	<i>M. heterophyllum</i>
Russell Millpond (82096)	MA82096_2004	4c	4c	<i>Trapa natans</i>
Rutters Brook		--	3	New segment – unassessed (listing requested during public review)
Saxonville Pond (82097)	MA82097_2004	5	5	Retained in Category 5 (“metals”, “noxious aquatic plants”, “exotic species” <i>Cabomba caroliniana</i> , <i>Marsilea quadrifolia</i>)
Solomon Pond (82100)	MA82100_2004	2	3	No uses assessed in 2001
Stearns Mill Pond (82104)	MA82104_2004	5	5	Retained in Category 5 (“nutrients”, “noxious aquatic plants”, “turbidity”) Add “organic enrichment/low DO” and “exotic species” <i>Trapa natans</i>
Sudbury River (8247650)	MA82A-02_2004	5	--	This segment divided into two new segments MA82A-25 and MA82A-26 (see below)
Sudbury River (8247650)	MA82A-25	5	5	New segment – formerly part of segment MA82A-02 – Retained in Category 5 (“metals”)
Sudbury River (8247650)	MA82A-26	5	5	New segment – formerly part of segment MA82A-02 – Retained in Category 5 (“metals”) Add “cause unknown”
Sudbury River (8247650)	MA82A-04_2004	5	5	Retained in Category 5 (“metals”) Add “exotic species” (<i>Trapa natans</i>)
Taylor Brook (8247100)	MA82B-08_2004	3	2	Aesthetic use supported
Unnamed Tributary (8246605)	MA82A-21_2004	3	2	Aesthetic use supported
Unnamed Tributary (8246805)	MA82B-16_2004	4c	2	Aquatic life and aesthetic uses supported
Unnamed Tributary (8247885)	MA82A-16_2004	5	5	Retained in Category 5 (“nutrients”, “organic enrichment/low DO”, “suspended solids”, “noxious aquatic plants”) Add “pH”
Unnamed tributary locally known as Cochituate Brook	MA82A-22	--	5	New segment – Added to Category 5 due to “cause unknown”
Walden Pond (82109)	MA82109_2004	5	5	Removed “organic enrichment /low DO” based on 2001 assessment.
Warners Pond (82110)	MA82110_2004	5	5	<i>Trapa natans</i>
Wash Brook (8247800)	MA82A-06_2004	5	--	Now referred to as Hop Brook (see above)
Waushacum Pond (82112)	MA82112_2004	4c	5	Added to Category 5 due to “noxious aquatic plants”, “organic enrichment/low DO”, “nutrients” and “turbidity”
West Pond (82115)	MA82115_2004	3	2	Primary and secondary contact recreation supported
Westborough Reservoir (82114)	MA82114_2004	2	3	No uses assessed in 2001
White Pond (82118)	MA82118_2004	2	3	No uses assessed in 2001

Waterbody	Segment	2004	2006	Notes
White Pond (82119)	MA82119_2004	2	3	No uses assessed in 2001
Whitehall Brook (8248425)	MA82A-11_2004	2	3	No uses assessed in 2001
Whitehall Reservoir (82120)	MA82120_2004	5	5	Retained in Category 5 "nutrients", "organic enrichment/low DO", "exotic species" <i>M. heterophyllum</i> , <i>C. caroliniana</i>)
Williams Lake (82121)	MA82121_2004	2	3	No uses assessed in 2001
Willis Lake (82122)	MA82122_2004	3	2	Aquatic life and aesthetics uses supported
Winning Pond (82123)	MA82123_2004	4c	4c	<i>Eichornia crassipes</i> , <i>M. spicatum</i> , <i>Trapa natans</i>

Farmington Watershed – Changes in the Integrated List from 2004 to 2006

Waterbody	Segment	2004	2006	Notes
Clam River	MA31-03_2006	2	2	Aquatic Life and Aesthetics uses supported. Primary and Secondary contact recreational uses now unassessed.
Cranberry Pond (31008)	MA31008_2006	2	3	No uses assessed in 2001
Fall River (3107325)	MA31-02_2006	2	2	Aquatic Life and Aesthetics uses supported. Other uses unassessed. Alert status due to potential impacts on habitat from hydromodification (flow releases from Otis Reservoir)
Hayden Pond (31016)	MA31016_2006	3	3	Alert status due to the possible (unconfirmed) presence of <i>Myriophyllum heterophyllum</i>
Long Bow Lake (31019)	MA31019_2006	2	3	No uses assessed in 2001
Lower Spectacle Pond (31020)	MA31020_2006	2	3	No uses assessed in 2001
Noyes Pond (31026)	MA31026_2006	4c	4c	<i>Myriophyllum heterophyllum</i>
Royal Pond	MA31034_2006	--	3	New segment – no uses assessed in 2001
Sandy Brook (3106875)	MA31-14_2006	2	2	Aquatic Life and Aesthetics uses supported. Primary and Secondary contact recreational uses now unassessed.
Shales Brook (3107525)	MA31-04_2006	2	3	No uses assessed in 2001
Shaw Pond (31036)	MA31036_2006	5	5	Retained in Category 5 ("organic enrichment/low DO") Add <i>Myriophyllum spicatum</i>
Silver Brook (3107150)	MA31-13_2006	2	3	No uses assessed in 2001
Silver Shield Pond (31054)	MA31054_2006	2	3	No uses assessed in 2001
Unnamed Tributary (3107405)	MA31-09_2006	2	3	No uses assessed in 2001
West Branch Farmington River (3106850)	MA31-01_2006	2	5	Added to Category 5 due to "cause unknown"
West Lake (31050)	MA31050_2006	2	3	No uses assessed in 2001
White Lily Pond (31051)	MA31051_2006	2	3	No uses assessed in 2001

South Coastal Watershed – Changes in the Integrated List from 2004 to 2006

Waterbody	Segment	2004	2006	Notes
Aaron River (9456175)	MA94-28_2006	--	5	New segment – Added to Category 5 due to "noxious aquatic plants", "flow alteration", "exotic species" – <i>Cabomba caroliniana</i>
Aaron River Reservoir (94178)	MA94178_2004	5	5	Added to Category 4c ("flow alteration")
Accord Pond (94002)	MA94002_2004	2	--	Pond is actually located in Weymouth/Weir (Boston Harbor) watershed

Waterbody	Segment	2004	2006	Notes
Arnold School Pond (94004)	MA94004_2004	2	3	No uses assessed in 2001
Bartlett Pond (94005)	MA94005_2004	2	3	No uses assessed in 2001
Beaver Dam Pond (94006)	MA94006_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Black Jimmy Pond (94008)	MA94008_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Black Mountain Pond (94009)	MA94009_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Bloody Pond (94015)	MA94015_2004	2	3	No uses assessed in 2001
Bluefish River (9457600)	MA94-30_2006	--	5	New segment – Listed in Category 5 due to “pathogens”. Aquatic life, primary and secondary contact recreation and aesthetic uses supported.
Boot Pond (94016)	MA94016_2004	2	3	No uses assessed in 2001
Bound Brook (9456100)	MA94-18_2004	3	5	Added to Category 5 (“turbidity” and “flow alteration”)
Bound Brook Pond (94017)	MA94017_2004	3	3	
Briggs Reservoir (94019)	MA94019_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Briggs Reservoir (94020)	MA94020_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Cohasset Harbor (94901)	MA94-01_2004	5	5	Retained in Category 5 (“pathogens”) Primary and secondary contact recreation and aesthetic uses supported.
Cohasset Cove	MA94-32_2006	--	5	New segment – Listed in Category 5 due to “pathogens”. Primary and secondary contact recreation and aesthetic uses supported.
Cooks Pond (94027)	MA94027_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Drinkwater River (9456900)	MA94-21_2004	5	5	Retained in Category 5 (“metals”) Add “Organic enrichment/low DO”, “nutrients”, “noxious aquatic plants”, “turbidity”, “pathogens”
Duxbury Bay (94904)	MA94-15_2004	5	5	Retained in Category 5 (“pathogens”). Aquatic life, primary and secondary contact recreation and aesthetic uses supported.
Eel River (9458000)	MA94-23_2004	3	4c	Added to Category 4c (“Flow alteration”, “exotic species” - <i>Cabomba caroliniana</i>). Primary and secondary contact recreation uses supported.
Elbow Pond (94035)	MA94035_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Ellisville Harbor	MA94-34_2006	--	5	New segment – Listed in Category 5 due to “pathogens”. Primary and secondary contact recreation uses supported
First Herring Brook (9456375)	MA94-25_2006	--	2	New segment. Aquatic life (“alert status”), primary and secondary contact recreation and aesthetic uses supported
Forge Pond (94036)	MA94036_2004	2	2	Aquatic life, secondary contact recreation and aesthetic uses supported
Forge Pond (94037)	MA94037_2004	5	5	Retained in Category 5 (“noxious aquatic plants”, “turbidity”, “exotic species” - <i>Cabomba caroliniana</i> and <i>Potamogeton crispis</i> ”) Add “Organic enrichment/low DO”, “nutrients”, “pathogens”, “objectionable deposits”
French Stream (9456950)	MA94-03_2004	5	5	Retained in Category 5 (“Organic enrichment/low DO”, “unknown toxicity”, “nutrients”, “pathogens”) Add “cause unknown”. Secondary contact recreation and aesthetic uses supported (with “alert status”)
Fresh Pond (94040)	MA94040_2004	2	2	Primary and secondary contact recreation and aesthetic uses supported.
Furnace Pond (94043)	MA94043_2004	5	5	Retained in Category 5 (“Organic enrichment/low DO”) Primary and secondary contact recreation uses supported (with “alert status”)
Great Herring Pond (94050)	MA94050_2004	5	5	Primary and secondary contact recreation and aesthetic uses supported
Great Sandy Bottom Pond (94053)	MA94053_2004	2	3	No uses assessed in 2001
Great South Pond (94054)	MA94054_2004	5	5	Aesthetic use supported
Green Harbor (94903)	MA94-11_2004	5	5	Retained in Category 5 (“pathogens”). Aesthetic use supported.

Waterbody	Segment	2004	2006	Notes
Green Harbor River (9457275)	MA94-10_2004	3	5	Added to Category 5 due to "noxious aquatic plants", "turbidity", "Flow alteration".
The Gulf (9456075)	MA94-19_2004	3	5	Added to Category 5 due to "pathogens". Aesthetic use supported
Gunners Exchange Pond (94055)	MA94055_2004	2	3	No uses assessed in 2001
Hedges Pond (94065)	MA94065_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Herring Brook (9456125)	MA94-29_2006	--	4c	New segment – Listed in Category 4c due to "flow alteration", "exotic species" – <i>Cabomba caroliniana</i>
Herring River (9456350)	MA94-07_2004	5	5	Retained in Category 5 ("pathogens"). Aesthetic use supported.
Hobomock Pond (94177)	MA94177_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Hoyts Pond (94070)	MA94070_2004	2	3	No uses assessed in 2001
Indian Head Pond (94071)	MA94071_2004	2	3	No uses assessed in 2001
Indian Head River (9456800)	MA94-22_2004	3	5	Added to Category 5 due to "metals" (6/29/06 DPH fish consumption advisory). Aquatic life, primary and secondary contact recreation and aesthetic uses supported.
Iron Mine Brook (9456825)	MA94-24_2006	--	5	New segment – Added to Category 5 due to "pathogens". Aquatic life ("alert status"), secondary contact recreation and aesthetic uses supported.
Island Creek Pond (94073)	MA94073_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Island Pond (94074)	MA94074_2004	2	3	No uses assessed in 2001
Island Pond (94075)	MA94075_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Island Pond (94076)	MA94076_2004	2	3	No uses assessed in 2001
Jacobs Pond (94077)	MA94077_2004	4c	4c	(<i>Cabomba caroliniana</i> and <i>Myriophyllum heterophyllum</i>)
Jones River (9457650)	MA94-12_2004	3	5	Added to Category 5 due to "Organic enrichment/low DO", "turbidity", "noxious aquatic plants", "Flow alteration"
Jones River (9457650)	MA94-13_2004	3	5	Added to Category 5 due to "Organic enrichment/low DO", "turbidity", "noxious aquatic plants", "Flow alteration"
Jones River (9457650)	MA94-14_2004	5	5	Retained in Category 5 ("pathogens"). Aquatic life, primary and secondary contact recreation and aesthetic uses supported (all with "alert status").
Lily Pond (94179)	MA94179_2006	--	5	New segment – Added to Category 5 ("turbidity", "Flow alteration", "exotic species – <i>Cabomba caroliniana</i> , <i>Myriophyllum heterophyllum</i> and <i>Potamogeton crispus</i>)
Little Herring Pond (94082)	MA94082_2004	2	3	No uses assessed in 2001
Little Pond (94182)	MA94182_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Little Sandy Bottom Pond (94085)	MA94085_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Little South Pond (94087)	MA94087_2004	2	3	No uses assessed in 2001
Long Island Pond (94088)	MA94088_2004	4c	4c	(<i>Cabomba caroliniana</i> and <i>Myriophyllum heterophyllum</i>)
Lorings Bogs Pond (94089)	MA94089_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Lout Pond (94090)	MA94090_2004	2	3	No uses assessed in 2001
Lower Chandler Pond (94091)	MA94091_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Maquan Pond (94096)	MA94096_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Morey Hole (94102)	MA94102_2004	2	3	No uses assessed in 2001
Muddy Pond (94104)	MA94104_2004	3	--	This segment has been relocated to Taunton watershed as MA62233
Musquashcut Pond (94105)	MA94105_2004	5	--	Segment designation changed to MA94-33 (see below)
Musquashcut Pond	MA94-33_2006	5	5	New segment designation (formerly MA94105) Retained in Category 5 ("Noxious aquatic plants") Add "Organic enrichment/low DO", "nutrients", "pathogens", "Flow alteration"
North River (9456250)	MA94-05_2004	5	5	Retained in Category 5 ("pathogens") Add "metals" due to 6/29/06 DPH fish consumption advisory. Aquatic life, secondary contact recreation and aesthetic uses supported

Waterbody	Segment	2004	2006	Notes
North River (9456250)	MA94-06_2004	5	5	Retained in Category 5 ("pathogens") Aquatic life and aesthetic uses supported
Old Oaken Bucket Pond (94113)	MA94113_2004	3	5	Added to Category 5 ("nutrients", "noxious aquatic plants", "exotic species" – <i>Cabomba caroliniana</i> and <i>Myriophyllum heterophyllum</i>)
Oldham Pond (94114)	MA94114_2004	4c	4c	(<i>Myriophyllum spicatum</i>) Primary and secondary contact recreation uses supported.
Pembroke Street South Pond (94117)	MA94117_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Plymouth Bay (94906)	MA94-17_2004	5	2	"Pathogens" removed as a result of 2001 assessment. Aquatic life, shellfishing, primary and secondary contact recreation and aesthetic uses supported
Plymouth Harbor (94905)	MA94-16_2004	5	5	Retained in Category 5 ("pathogens") Add "cause unknown". Primary and secondary contact recreation and aesthetic uses supported
Reeds Millpond (94126)	MA94126_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Round Pond (94131)	MA94131_2004	2	3	No uses assessed in 2001
Russell Millpond (94132)	MA94132_2004	5	5	Retained in Category 5 ("noxious aquatic plants") Add "Flow alteration"
Savery Pond (94136)	MA94136_2004	2	2	Primary and secondary contact recreation uses supported. Aesthetic use unassessed.
Scituate Harbor (94902)	MA94-02_2004	5	5	Retained in Category 5 ("pathogens") Aesthetic use supported
Second Herring Brook (9456450)	MA94-26_2006	--	2	New segment. Aquatic life, primary and secondary contact recreation and aesthetic uses supported
Second Herring Brook (9456450)	MA94-31_2006	--	5	New segment – Added to Category 5 due to "pathogens". Aquatic life ("alert status"), primary and secondary contact recreation and aesthetic uses supported
Silver Lake (94143)	MA94143_2004	2	4c	Added to Category 4c due to "Flow alteration"
Smelt Pond (94184)	MA94184_2004	4c	4c	(<i>Cabomba caroliniana</i> and <i>Myriophyllum heterophyllum</i>)
South River (9457075)	MA94-08_2004	3	2	Aquatic life ("alert status"), primary and secondary contact recreation and aesthetic uses supported
South River (9457075)	MA94-09_2004	5	5	Retained in Category 5 ("pathogens") Aquatic life, primary and secondary contact recreation ("alert status") and aesthetic ("alert status") uses supported
Studleys Pond (94151)	MA94151_2004	2	5	Added to Category 5 due to "pathogens".
Tack Factory Pond (94152)	MA94152_2004	4c	2	Remove "exotic species" (erroneously listed previously). Aquatic life, primary and secondary contact recreation and aesthetic uses supported
Third Herring Brook (9456500)	MA94-27_2006	--	5	New segment – Added to Category 5 due to "pathogens". Aquatic life, secondary contact recreation and aesthetic uses supported.
Torrey Pond (94157)	MA94157_2004	5	4c	Added to Category 4c (-Exotic species*) "Noxious aquatic plants" and "turbidity" removed as stressors due to new assessment
Triangle Pond (94160)	MA94160_2004	2	3	No uses assessed in 2001
Unnamed tributary to Eel River	MA94-35_2006	--	3	New segment – no uses assessed in 2001
Upper Chandler Pond (94165)	MA94165_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Wampatuck Pond (94168)	MA94168_2004	5	5	Retained in Category 5 ("noxious aquatic plants") Add "nutrients", "Organic enrichment/low DO", "turbidity", "exotic species" – Cabomba caroliniana
West Chandler Pond (94170)	MA94170_2004	2	3	No uses assessed in 2001

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Waterbody	Segment	2004	2006	Notes
Ames Long Pond (62001)	MA62001_2004	5	5	Retained in Category 5 (“noxious aquatic plants”, “turbidity”, “exotic species”) (<i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Assawompset Pond (62003)	MA62003_2004	2	3	No uses assessed in 2001
Assonet River (6235100)	MA62-19_2004	3	2	Aquatic life (“alert status”), aesthetics (“alert status”), primary and secondary contact recreation uses supported.
Beaver Brook (6237350)	MA62-09_2004	3	5	Added to Category 5 due to “pathogens”
Big Bearhole Pond (62011)	MA62011_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “exotic species”) (<i>Cabomba caroliniana</i> , <i>Myriophyllum spicatum</i>)
Briggs Pond (62021)	MA62021_2004	2	3	No uses assessed in 2001
Broad Cove (62022)	MA62022_2004	2	5	Segment designation changed to MA62-50. Listed in Category 5 due to “pathogens”
Brockton Reservoir (62023)	MA62023_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Canoe River (6235850)	MA62-27_2004	2	2	Aquatic life and aesthetic uses supported
Carver Pond (62033)	MA62033_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Cedar Swamp River (6235225)	MA62-44_2006	--	2	New Segment – Aquatic life (“alert status”), aesthetics (“alert status”), primary and secondary contact recreation uses supported.
Clear Pond (62041)	MA62041_2006	--	2	New segment – Primary and secondary contact recreational uses supported
Cleveland Pond (62042)	MA62042_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Cobb Brook (6235700)	MA62-43_2006	--	3	New segment – no uses assessed in 2001
Cooper Pond (62046)	MA62046_2004	2	2	Primary and secondary contact recreational uses supported. Aesthetics use unassessed.
Cotley River (6235950)	MA62-41_2006	--	3	New segment – no uses assessed in 2001
Crocker Pond (62051)	MA62051_2004	4c	4c	(<i>Potamogeton crispus</i>)
Cushing Pond (62056)	MA62056_2004	4c	4c	(<i>Cabomba caroliniana</i>)
East Freetown Pond (62063)	MA62063_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Fuller Street Pond (62234)	MA62234_2006	4c	4c	New segment – formerly identified as Segment MA95058. (<i>Myriophyllum heterophyllum</i>)
Gavins Pond (62077)	MA62077_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Great Quittacas Pond (62083)	MA62083_2004	2	3	No uses assessed in 2001
Gushee Pond (62084)	MA62084_2004	4c	4c	(<i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Hobart Pond (62090)	MA62090_2004	5	5	Retained in Category 5 (“turbidity”, “exotic species”) (<i>Myriophyllum heterophyllum</i>)
Island Grove Pond (62094)	MA62094_2004	5	5	Retained in Category 5 (“turbidity”, “noxious aquatic plants”, “exotic species”) (<i>Cabomba caroliniana</i>) Primary and secondary contact recreation supported
Johns Pond (62096)	MA62096_2004	2	2	Primary and secondary contact recreational uses supported. Aesthetics use unassessed.
Johnson Pond (62097)	MA62097_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Little Quittacas Pond (62107)	MA62107_2004	2	3	No uses assessed in 2001
Long Pond (62108)	MA62108_2004	4c	4c	(<i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>) Primary and secondary contact recreation supported
Longwater Pond (62109)	MA62109_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Lovett Brook (6237300)	MA62-46_2006	--	2	New segment. Aesthetic use supported
Lower Porter Pond (62111)	MA62111_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Matfield River (6236925)	MA62-32_2004	5	5	Retained in Category 5 (“organic enrichment/low DO”, “pathogens”) Add “nutrients”, “noxious aquatic plants”, “cause unknown”, “taste,odor,color”

Waterbody	Segment	2004	2006	Notes
Mcavoy Pond (62112)	MA62112_2004	4c	--	Now Vandys Pond (see below)
Meadow Brook (6237075)	MA62-38_2006	--	5	New segment – Listed in category 5 (“pathogens”). Secondary contact recreation and aesthetic uses supported
Middle Pond (62115)	MA62115_2004	4c	4c	(<i>Myriophyllum spicatum</i>) Primary and secondary contact recreation supported
Lake Mirimichi (62118)	MA62118_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Monponsett Pond (62119)	MA62119_2004	5	5	Retained in Category 5 (“turbidity”, “exotic species” - <i>Cabomba caroliniana</i>) Add “nutrients”, “noxious aquatic plants” (for algae blooms)
Monponsett Pond (62218)	MA62218_2004	5	5	Retained in category 5 (“metals”) (“exotic species” - <i>Cabomba caroliniana</i>) Primary (alert status) and secondary contact recreation supported
Mountain Street Pond (62123)	MA62123_2004	3	--	Now Upper Leach Pond (see below)
Mount Hope Mill Pond (62122)	MA62122_2006	--	4c	Formerly incorrectly identified as Three Mile River Impoundment (62231) (<i>Cabomba caroliniana</i>)
Muddy Cove Brook (6235275)	MA62-23_2004	3	--	This segment divided into two new segments MA62-51 and MA62-52 (see below)
Muddy Cove Brook (6235275)	MA62-52_2006	3	3	New segment – formerly part of segment MA62-23 – No uses assessed in 2001
Muddy Cove Brook (6235275)	MA62-51_2006	3	5	New segment – formerly part of segment MA62-23 – Listed in Category 5 due to “pathogens”
Muddy Pond (62125)	MA62125_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Muddy Pond (62126)	MA62126_2004	2	3	No uses assessed in 2001
Muddy Pond (62233)	MA62233_2006	3	3	New segment – formerly identified as Segment MA94104.
Nemasket River (6236225)	MA62-25_2004	2	2	Aquatic life (“alert status”) and aesthetic uses supported. All other uses unassessed.
Nemasket River (6236225)	MA62-26_2004	3	2	Aesthetic use supported
New Pond (62130)	MA62130_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Lake Nippenicket (62131)	MA62131_2004	5	5	(<i>Cabomba caroliniana</i>)
Norton Reservoir (62134)	MA62134_2004	5	5	Retained in Category 5 (“pesticides”, “nutrients”, “turbidity”, “noxious aquatic plants”, “exotic species”) (<i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Pocksha Pond (62145)	MA62145_2004	2	3	No uses assessed in 2001
Puds Pond (62151)	MA62151_2004	2	3	No uses assessed in 2001
Rattlesnake Brook (6235125)	MA62-45_2006	--	2	New Segment – Aquatic life (“alert status”) and aesthetic uses supported.
The Reservoir (62189)	MA62189_2004	2	3	No uses assessed in 2001
Richmond Pond (62159)	MA62159_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Lake Rico (62148)	MA62148_2004	4c	4c	(<i>Cabomba caroliniana</i> , <i>Myriophyllum spicatum</i>)
Robbins Pond (62162)	MA62162_2004	2	3	No uses assessed in 2001
Robinson Brook (6235625)	MA62-14_2004	3	5	Added to Category 5 due to “cause unknown”, “other habitat alterations”
Rumford River (6235600)	MA62-15_2004	5	--	This segment divided into two new segments MA62-39 and MA62-40 (see below)
Rumford River (6235600)	MA62-39_2006	5	5	New segment – formerly part of segment MA62-15 – Listed in Category 5 due to “pathogens”, “Organic enrichment/low DO”, “pesticides”, “cause unknown”, “other habitat alterations”. Aesthetic use supported
Rumford River (6235600)	MA62-40_2006	5	2	New segment – formerly part of segment MA62-15 – Aesthetic use supported
Lake Sabbatia (62166)	MA62166_2004	4c	5	Added to Category 5 due to “organic enrichment/low DO” (“exotic species” - <i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Salisbury Brook (6237275)	MA62-08_2004	5	5	Retained in Category 5 (“siltation”, “pathogens”) Add “other habitat alterations”
Salisbury Plain River (6237100)	MA62-05_2004	5	5	Retained in Category 5 (“siltation”, “Organic enrichment/low DO”, “pathogens”, “other habitat alterations”) Remove “suspended solids”
Salisbury Plain River (6237100)	MA62-06_2004	5	5	Retained in Category 5 (“Organic enrichment/low DO”, “pathogens”, “cause unknown”) Add “nutrients”, “objectionable deposits”, “turbidity”, “taste,odor,color”, “noxious aquatic plants”

Waterbody	Segment	2004	2006	Notes
Sassaquin Pond (62232)	MA62232_2004	2	5	Added to Category 5 due to "noxious aquatic plants", "pathogens"
Satucket River (6236950)	MA62-10_2004	3	2	Aquatic life, primary ("alert status") and secondary contact recreation, and aesthetic uses supported
Savery Pond (62167)	MA62167_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Segreganset River (6235300)	MA62-18_2004	3	--	This segment divided into three new segments MA62-53, MA62-54 and MA62-55 (see below)
Segreganset River (6235300)	MA62-53_2006	3	4c	New segment – formerly part of segment MA62-18 – Listed in Category 4c ("flow alteration")
Segreganset River (6235300)	MA62-54_2006	3	4c	New segment – formerly part of segment MA62-18 – Listed in Category 4c ("flow alteration")
Segreganset River (6235300)	MA62-55_2006	3	5	New segment – formerly part of segment MA62-18 – Added to Category 5 due to "pathogens"
Shovelshop Pond (62172)	MA62172_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Shumatuscacant River (6237025)	MA62-33_2004	3	5	Listed in category 5 ("pathogens", "siltation", "Organic enrichment/low DO", "other habitat alterations"). Secondary contact recreation and aesthetic uses supported
Stetson Pond (62182)	MA62182_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/lowDO", "exotic species") (<i>Myriophyllum spicatum</i>)
Sunset Lake (62184)	MA62184_2004	2	3	No uses assessed in 2001
Sweets Pond (62185)	MA62185_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Taunton River (6235000)	MA62-01_2004	3	2	Aquatic life use supported with "alert status"
Taunton River (6235000)	MA62-04_2004	5	5	Retained in Category 5 ("pathogens", "organic enrichment/low DO") Add "cause unknown" (reduced abundance and diversity of fish)
Thirtyacre Pond (62190)	MA62190_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Three Mile River Impoundment (62231)	MA62231_2004	4c	--	See Mount Hope Mill Pond (62122)
Threemile River (6235350)	MA62-16_2004	5	--	This segment divided into two new segments MA62-56 and MA62-57 (see below)
Threemile River (6235350)	MA62-56_2006	5	5	New segment – formerly part of segment MA62-16 – Listed in Category 5 due to "pathogens". Aquatic life and aesthetic uses supported (both with "alert status")
Threemile River (6235350)	MA62-57_2006	5	5	New segment – formerly part of segment MA62-16 – Listed in Category 5 due to "pathogens"
Thurston Street Pond (62192)	MA62192_2004	3	3	
Tispaquin Pond (62195)	MA62195_2006	--	2	New segment – Primary and secondary contact recreational uses supported
Trout Brook (6237175)	MA62-07_2004	5	5	Retained in Category 5 ("pathogens", "organic enrichment/low DO", "siltation") Add "turbidity", "suspended solids"
Turnpike Lake (62198)	MA62198_2004	4c	4c	(<i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Unnamed tributary to Cedar Swamp River	MA62-42_2006	--	5	Listed in Category 5 due to "cause unknown". Primary and secondary contact recreation and aesthetic uses supported.
Unnamed tributary	MA62-48_2006	--	5	New segment – Listed in Category 5 ("thermal modifications", "cause unknown", "flow alteration", "other habitat alterations")
Upper Leach Pond (62123)	MA62123_2004	--	3	Formerly Mountain Street Pond
Upper Porter Pond (62200)	MA62200_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Vandys Pond (62112)	MA62112_2004	--	4c	Formerly McAvoy Pond. (<i>Myriophyllum heterophyllum</i>)
Wading River (6235450)	MA62-17_2004	5	--	This segment divided into two new segments MA62-47 and MA62-49 (see below)
Wading River (6235450)	MA62-47_2006	5	5	New segment – formerly part of segment MA62-17 –Retained in Category 5 ("Organic enrichment/low DO", "pathogens". Remove "cause unknown". Aesthetic use supported.
Wading River (6235450)	MA62-49_2006	5	5	New segment – formerly part of segment MA62-17 –Retained in Category 5 due to "pathogens". Remove "cause unknown" and "Organic enrichment/low DO". Aquatic life and Aesthetic uses supported.
Waldo Lake (62201)	MA62201_2004	4c	4c	(<i>Cabomba caroliniana</i>)

Waterbody	Segment	2004	2006	Notes
Ward Pond (62203)	MA62203_2004	3	3	
Watson Pond (62205)	MA62205_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "turbidity", "noxious aquatic plants", "exotic species") (<i>Cabomba caroliniana</i>)
West Meadow Pond (62208)	MA62208_2004	4c	4c	(<i>Myriophyllum heterophyllum</i>)
Whittenton Impoundment (62228)	MA62228_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Winneconnet Pond (62213)	MA62213_2004	4c	4c	(<i>Cabomba caroliniana</i>)
Winnetuxet River (6236575)	MA62-24_2004	3	2	Aesthetic use supported
Wolomolopoag Pond (62216)	MA62216_2004	2	3	No uses assessed in 2001
Woods Pond (62220)	MA62220_2004	5	5	Retained in Category 5 ("turbidity", "exotic species") (<i>Cabomba caroliniana</i>)

Westfield Watershed – Changes in the Integrated List from 2004 to 2006

Waterbody	Segment	2004	2006	Notes
Ashley Cutoff (32001)	MA32001_2002	2	3	No uses assessed in 2001
Ashley Pond (32002)	MA32002_2002	2	3	No uses assessed in 2001
Bedlam Brook (3209500)	MA32-33_2002	3	2	Aquatic life and aesthetic uses supported
Blair Pond (32009)	MA32009_2002	4c	4c	<i>Cabomba caroliniana</i>
Borden Brook Reservoir (32011)	MA32011_2002	2	3	No uses assessed in 2001
Bradley Brook (3209800)	MA32-21_2002	3	2	Aquatic life and aesthetic uses supported
Buck Pond (32012)	MA32012_2002	4c	4c	<i>Myriophyllum heterophyllum</i>
Buckley-Dunton Lake (32013)	MA32013_2002	2	3	No uses assessed in 2001
Center Pond (32015)	MA32015_2002	2	4c	<i>Myriophyllum spicatum</i> ; primary and secondary contact recreation supported
Clear Pond (32077)	MA32077_2002	2	3	No uses assessed in 2001
Cobble Mountain Reservoir (32018)	MA32018_2002	2	3	No uses assessed in 2001
Congamond Lakes (32021)	MA32021_2002	4c	5	Added to Category 5 due to organic enrichment/low DO; exotic species (<i>Myriophyllum spicatum</i>); aesthetics supported
Congamond Lakes (32022)	MA32022_2002	4c	5	Added to Category 5 due to organic enrichment/low DO; exotic species (<i>Myriophyllum spicatum</i>); aesthetics supported
Congamond Lakes (32023)	MA32023_2002	4c	4c	<i>Myriophyllum spicatum</i> ; primary and secondary contact recreation and aesthetics supported
Depot Brook (3210600)	MA32-17_2002	2	2	Aquatic life use supported; All other uses unassessed.
Dickinson Brook (3208975)	MA32-34_2002	3	2	Aquatic life and aesthetics uses supported
Garnet Lake (32037)	MA32037_2002	2	3	No uses assessed in 2001
Granville Reservoir (32038)	MA32038_2002	2	3	No uses assessed in 2001
Great Brook (3208375)	MA32-25_2002	3	2	Aquatic life and primary and secondary contact recreational uses supported
Hammond Pond (32040)	MA32040_2002	2	3	No uses assessed in 2001
Horse Pond (32043)	MA32043_2002	4c	4c	(<i>Myriophyllum heterophyllum</i> and <i>M. spicatum</i>)
Kinne Brook (3210800)	MA32-32_2002	3	2	Aesthetic use supported
Little River (3208725)	MA32-08_2002	3	5	Added to Category 5 due to "pathogens".
Little River (3211100)	MA32-16_2002	3	2	Aquatic life and aesthetics uses supported
Little River	MA32-26_2002	4c	--	Split into two new segments (see below)

Waterbody	Segment	2004	2006	Notes
Little River	MA32-35	--	2	New segment – formerly part of segment 32-26 – Aquatic life and aesthetic uses supported
Little River	MA32-36	--	5	New segment – formerly part of segment 32-26 – Added to Category 5 due to “siltation” Aesthetic use supported.
Littleville Lake (32046)	MA32046_2002	2	3	No uses assessed in 2001
McLean Reservoir (32050)	MA32050_2002	2	3	No uses assessed in 2001
Meadow Brook (3211925)	MA32-11_2002	2	3	No uses assessed in 2001
Middle Branch Westfield River (3210725)	MA32-02_2002	2	2	Aquatic life use supported; all other uses unassessed
Middle Branch Westfield River (3210725)	MA32-03_2002	2	3	No uses assessed in 2001
Miller Brook (3208325)	MA32-27_2002	3	2	Aquatic life use supported
Moose Meadow Brook (3209700)	MA32-23_2002	3	5	Added to Category 5 due to “pathogens” and “turbidity”.
Norwich Pond (32054)	MA32054_2002	2	3	No uses assessed in 2001
Pequot Pond (32055)	MA32055_2002	5	5	Retained in Category 5 (“organic enrichment/low DO”, “nutrients”, “noxious aquatic plants”, “exotic species”) <i>Myriophyllum heterophyllum</i> , <i>M. spicatum</i> and <i>Potamogeton crispus</i>
Potash Brook (3209725)	MA32-22_2002	3	2	Aquatic life use supported
Powdermill Brook (3208575)	MA32-09_2002	5	5	Retained in Category 5 (“siltation”, “suspended solids”, “turbidity”) “Pathogens” removed based on 2001 assessment
Roaring Brook (3210125)	MA32-30_2002	3	2	Aquatic life and aesthetic uses supported
Robin Hood Lake (32057)	MA32057_2002	2	3	No uses assessed in 2001
Rudd Pond (32060)	MA32060_2002	2	3	No uses assessed in 2001
Russell Pond (32061)	MA32061_2002	2	2	Primary and secondary recreation supported; aesthetics unassessed
Sanderson Brook (3210200)	MA32-31_2002	3	2	Aquatic life and aesthetic uses supported
Scout Pond (32063)	MA32063_2002	2	3	No uses assessed in 2001
Shaker Mill Brook (3210625)	MA32-18_2002	2	2	Aquatic life use supported; All other uses unassessed.
Swift River (3211775)	MA32-12_2002	3	2	Aquatic life use supported
Walker Brook (3210300)	MA32-20_2002	3	2	Aquatic life use supported
Watts Stream (3211150)	MA32-14_2002	2	2	Aquatic life use supported; Primary and secondary contact recreation and aesthetics unassessed
West Branch (3211525)	MA32-13_2002	3	3	Segment name adjusted to “West Falls Branch”
West Branch Westfield River (3210075)	MA32-01_2002	2	2	Aquatic life use assessed; all other uses unassessed
Westfield Reservoir (32074)	MA32074_2002	2	3	No uses assessed in 2001
Westfield River (3208250)	MA32-04_2002	2	5	Added to Category 5 due to “pathogens” Aquatic life and aesthetic uses supported
Westfield River (3208250)	MA32-05_2002	3	5	Added to Category 5 due to “unknown causes”, “noxious aquatic plants”, “turbidity” and “taste, odor, color”
Westfield River (3208250)	MA32-07_2002	3	2	Secondary contact recreation and aesthetic uses supported
White Brook (3208300)	MA32-28_2002	3	2	Aquatic life use supported
Windsor Pond (32076)	MA32076_2002	5	5	Retained in Category 5 (“organic enrichment/low DO”, “exotic species”) (<i>Myriophyllum spicatum</i>)
Wright Pond (32078)	MA32078_2002	2	3	No uses assessed in 2001
Yokum Brook (3210550)	MA32-19_2002	2	2	Aquatic life and aesthetic uses supported; all other uses unassessed

Waterbody	Segment	2004	2006	Notes
Yokum Pond (32079)	MA32079_2002	2	3	No uses assessed in 2001

Miscellaneous Segments – Changes in the Integrated List from 2004 to 2006

Watershed	Segment	2004	2006	Notes
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
	MA95110	5	5	New Bedford Reservoir - Add "metals" and "pesticides" due to 6/29/06 DPH fish consumption advisory
Buzzards Bay	MA95125	4c	5	Sampson Pond - Add "metals" and "pesticides" due to 6/29/06 DPH fish consumption advisory
Cape Cod	MA96-44	5	5	Bucks Creek – Retained in Category 5 ("pathogens") TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-47	5	4a	Crows Pond - TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-49	5	4a	Frost Fish Creek – TMDL approved for "pathogens" [4/28/2005-CN207.0] and "nutrients" [6/21/2006-CN206.0]
	MA96-43	5	5	Harding Beach Pond – Retained in Category 5 ("pathogens") TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-41	5	5	Mill Creek – Retained in Category 5 ("pathogens") <u>Protective TMDL</u> approved for "nutrients" [6/21/2006-CN206.0]
	MA96-52	5	4a	Mill Pond - TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-51	5	4a	Muddy Creek – TMDL approved for "pathogens" [4/28/2005-CN208.0] and "nutrients" [6/21/2006-CN206.0]
	MA96-45	5	5	Oyster Pond – Added [6/21/06-206.0] for approved nutrient TMDL

Watershed	Segment	2004	2006	Notes
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
	MA96-46	5	5	Oyster Pond River – Added [6/21/06-206.0] for approved nutrient TMDL
	MA96-50	5	5	Ryder Cove – Retained in Category 5 ("pathogens") TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-11	5	5	Stage Harbor – Added [6/21/06-206.0] for approved nutrient TMDL
	MA96-42	5	5	Taylor's Pond – Retained in Category 5 ("pathogens") TMDL approved for "nutrients" [6/21/2006-CN206.0]
Charles	MA72035	2	5	Echo Lake (DPH fish consumption advisory) - Hg
	MA72092	3	4c	Lake Pearl – Based on CRWA comment, ESS reported the presence of "exotic species" (<i>Myriophyllum spicatum</i> and <i>M. heterophyllum</i>)
	MA72-01	5	5	(Flow alteration*) added as a stressor based on CRWA comment
	MA72-09	5	5	Stop River – "Nutrients" added as a stressor based on CRWA comment
	MA72-10	5	5	Stop River – "Nutrients" added as a stressor based on CRWA comment
Chicopee	MA36150	4a	4a	"Turbidity" removed as a stressor covered by TMDL CN118.0 based on public comment from ConnRWC – this stressor never appeared on 303(d) list and was erroneously added later on
	MA36-20	5	3	Cranberry River – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Spencer POTW. Segment unassessed.
Connecticut	MA34-06	5	5	Lampson Brook – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Belchertown POTW
	MA34-23	5	5	Weston Brook – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Belchertown POTW

Watershed	Segment	2004	2006	Notes
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
	MA21071	--	5	New segment – Moorewood Lake (DPH fish consumption advisory) – Added to Category 5 due to "priority organics"
Housatonic	MA21042	3	5	Goodrich Pond (DPH fish consumption advisory - PCBs) – Added to Category 5 due to "priority organics"
	MA21083	4c	5	Pontoosuc Lake (DPH fish consumption advisory revised to include DDT) – Add "pesticides"
Ipswich	MA92-06	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO"). Add "metals" (6/29/06 DPH fish consumption advisory)
	MA92-15	5	5	Retained in Category 5 ("organic enrichment/low DO"). Add "metals" (6/29/06 DPH fish consumption advisory)
Merrimack	MA84015	3	5	Forge Pond (DPH fish consumption advisory) - Hg
	MA84044	--	5	New segment – Nabnasset Pond (DPH fish consumption advisory) - Hg
	MA84084	4c	5	Lost Lake (DPH fish consumption advisory) - Hg
Millers	MA35-09	5	5	Beaver Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-17	5	5	Boyce Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-12	5	5	East Branch Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-16	5	5	Keyup Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-13	5	5	Lawrence Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-19	5	5	Lyons Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)

Watershed	Segment	2004	2006	Notes
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
	MA35-01	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-02	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-03	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-04	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-05	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-20	5	3	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35047	4c	5	Lake Monomonac (6/29/06 DPH fish consumption advisory – Hg)
	MA35-15	5	5	Mormon Hollow Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-06	5	2	Otter River - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory). Aesthetic use supported
	MA35-07	5	5	Otter River - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory)
	MA35-08	5	5	Otter River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-10	5	2	Priest Brook - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory) Aquatic life and aesthetics uses attained.
	MA35-14	5	5	Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)

Watershed	Segment	2004	2006	Notes
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
	MA35-11	5	5	West Branch Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-18	5	5	Whetstone Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
Mount Hope Bay	MA61-08	5	4a	Kickamuit River - TMDL approved for "pathogens" [9/29/2006-CN285.0]
Mystic (Boston Harbor)	MA71043	--	3	Upper Mystic Lake - New segment – listing requested during public review
	MA71039	--	3	Spot Pond - New segment – listing requested during public review
	MA71-10	--	3	Cummings Brook - New segment – listing requested during public review
	MA71-11	--	3	Skaker Glen Brook - New segment – listing requested during public review
	MA71-12	--	3	Sales Creek - New segment – listing requested during public review
Narragansett Bay	MA53-03	5	4a	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized
	MA53-04	5	5	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized
	MA53-05	5	4a	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized
Neponset (Boston Harbor)	MA73002	5	3	Bird Pond erroneously listed for "priority organics" – DPH health advisory for PCBs only applies further downstream – does not include Bird Pond
Ten Mile	MA52011	5	5	Dodgeville Pond - Retained in Category 5. Add "pesticides"
	MA52-03	5	5	Ten Mile River - Retained in Category 5. Add "pesticides"
	MA52-09	5	4c	"Flow alteration" is the only stressor – erroneously listed in Category 5 in the past.
Weymouth/Weir (Boston Harbor)	MA74025	3	5	Whitman's Pond (DPH fish consumption advisory - DDT) – Added to Category 5 due to "pesticides"

Appendix 2

Category 5 and 4c Impairments *added* from 2004 to 2006 Integrated List Cycles

Waterbody Name	Segment	2004	2006	Notes
Concord				
Assabet River (8246775)	MA82B-01_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "pathogens") Add "flow alteration", "cause unknown". "Organic enrichment/low DO" {CN201.0} no longer an impairment based on 2001 assessment – TMDL is still protective.
Assabet River (8246775)	MA82B-02_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "pathogens", "metals") Add "cause unknown".
Assabet River (8246775)	MA82B-03_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "pathogens") Add "noxious aquatic plants" {CN201.0}, "objectionable deposits", "taste,odor,color", "exotic species" <i>Potamogeton crispus</i> .
Assabet River (8246775)	MA82B-04_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "Organic enrichment/low DO" {CN201.0}, "pathogens", "metals") Add "noxious aquatic plants" {CN201.0}, "cause unknown".
Assabet River (8246775)	MA82B-05_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "Organic enrichment/low DO" {CN201.0}, "pathogens") Add "noxious aquatic plants" {CN201.0}, "objectionable deposits", "taste,odor,color", "exotic species" <i>Cabomba caroliniana</i> , <i>Potamogeton crispus</i> , <i>Trapa natans</i> .
Assabet River (8246775)	MA82B-06_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "Organic enrichment/low DO" {CN201.0}, "noxious aquatic plants" {CN201.0}, "pathogens", "metals", "priority organics", "thermal modifications", "taste,odor,color") Add "objectionable deposits", "exotic species" <i>Cabomba caroliniana</i> , <i>Potamogeton crispus</i> , <i>Trapa natans</i> . "Suspended solids" removed as a stressor based on 2001 assessment.
Assabet River Reservoir (82004)	MA82004_2004	5	5	Retained in Category 5 ("metals", "turbidity", "noxious aquatic plants", "exotic species" <i>Myriophyllum spicatum</i>) Add "organic enrichment/low DO" [9/23/04 – CN 201.0]
Carding Mill Pond (82015)	MA82015_2004	5	5	Retained in Category 5 ("noxious aquatic plants", "nutrients") Add "exotic species" (<i>Trapa natans</i> and <i>Potamogeton crispus</i>)
Lake Cochituate (82020)	MA82020_2004	5	5	Retained in Category 5 ("organic enrichment/low DO", "priority organics") Add "exotic species" (<i>Myriophyllum spicatum</i>). Primary and secondary contact recreation supported
Lake Cochituate (82125)	MA82125_2004	5	5	Retained in Category 5 ("organic enrichment/low DO", "priority organics") Add "pathogens" and "exotic species" (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Lake Cochituate (82126)	MA82126_2004	5	5	Retained in Category 5 ("priority organics") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Lake Cochituate (82127)	MA82127_2004	5	5	Retained in Category 5 ("organic enrichment/low DO", "priority organics") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>M. heterophyllum</i> and <i>P. crispus</i>)
Concord River (8246500)	MA82A-07_2004	5	5	Retained in Category 5 ("metals", "pathogens", "nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>Trapa natans</i> , <i>Cabomba caroliniana</i> and <i>P. crispus</i>)
Concord River (8246500)	MA82A-08_2004	5	5	Retained in Category 5 ("metals", "nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i> , <i>Trapa natans</i> , <i>Cabomba caroliniana</i>)
Concord River (8246500)	MA82A-09_2004	5	5	Retained in Category 5 ("metals", "nutrients", "pathogens"). Add "noxious aquatic plants" and "objectionable deposits"
Dudley Pond (82029)	MA82029_2004	5	5	Retained in Category 5 ("turbidity", "exotic species" (<i>Myriophyllum spicatum</i> and <i>P. crispus</i>) Add "organic enrichment/low DO"
Eames Brook (8248125)	MA82A-13_2004	5	5	Retained in Category 5 ("noxious aquatic plants", "cause unknown", "exotic species" <i>P. crispus</i>) Add "objectionable deposits" and "taste,odor,color"
Fort Meadow Reservoir (82042)	MA82042_2004	5	5	Retained in Category 5 ("nutrients") Add "exotic species" (<i>Myriophyllum spicatum</i>) and "pesticides" (6/29/06 DPH health advisory due to chlordane in fish tissue)

Waterbody Name	Segment	2004	2006	Notes
Grist Mill Pond (82055)	MA82055_2004	5	5	Retained in Category 5 ("pathogens", "nutrients", "noxious aquatic plants") Add "organic enrichment/low DO" and "exotic species" <i>P. crispus</i> , <i>T. natans</i>
Hager Pond (82056)	MA82056_2004	5	5	Retained in Category 5 ("pathogens", "nutrients", "noxious aquatic plants", "turbidity") Add "organic enrichment/low DO" and "exotic species" <i>P. crispus</i>
Heard Pond (82058)	MA82058_2004	5	5	Retained in Category 5 ("metals", "exotic species" <i>C. caroliniana</i> , <i>T. natans</i>) Add "noxious aquatic plants" and "turbidity"
Heart Pond (82059)	MA82059_2004	2	5	Added to Category 5 due to "pathogens".
Nutting Lake (82088)	MA82088_2004	5	5	Retained in Category 5 due to "metals". "pathogens" added as a stressor .
Pantry Brook (8247700)	MA82A-19_2004	3	5	Added to Category 5 due to "pathogens"
River Meadow Brook (8246525)	MA82A-10_2004	5	5	Retained in Category 5 ("pathogens") Add "objectionable deposits" and "exotic species" (<i>T. natans</i>)
Stearns Mill Pond (82104)	MA82104_2004	5	5	Retained in Category 5 ("nutrients", "noxious aquatic plants", "turbidity") Add "organic enrichment/low DO" and "exotic species" <i>Trapa natans</i>
Sudbury River (8247650)	MA82A-02_2004	5	--	This segment divided into two new segments MA82A-25 and MA82A-26 (see below)
Sudbury River (8247650)	MA82A-25	5	5	New segment – formerly part of segment MA82A-02 – Retained in Category 5 ("metals")
Sudbury River (8247650)	MA82A-26	5	5	New segment – formerly part of segment MA82A-02 – Retained in Category 5 ("metals") Add "cause unknown"
Sudbury River (8247650)	MA82A-04_2004	5	5	Retained in Category 5 ("metals") Add "exotic species"? (<i>Trapa natans</i>)
Unnamed Tributary (8247885)	MA82A-16_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "suspended solids", "noxious aquatic plants") Add "pH"
Waushacum Pond (82112)	MA82112_2004	4c	5	Added to Category 5 due to "noxious aquatic plants", "organic enrichment/low DO", "nutrients" and "turbidity"
Farmington				
Shaw Pond (31036)	MA31036_2006	5	5	Retained in Category 5 ("organic enrichment/low DO") Add "exotic species" <i>Myriophyllum spicatum</i>
West Branch Farmington River (3106850)	MA31-01_2006	2	5	Added to Category 5 due to "cause unknown"
South Coastal				
Aaron River (9456175)	MA94-28_2006	--	5	New segment – Added to Category 5 due to "noxious aquatic plants", "flow alteration", "exotic species" – <i>Cabomba caroliniana</i>
Bluefish River (9457600)	MA94-30_2006	--	5	New segment – Listed in Category 5 due to "pathogens".
Bound Brook (9456100)	MA94-18_2004	3	5	Added to Category 5 ("turbidity" and "flow alteration")
Cohasset Cove	MA94-32_2006	--	5	New segment – Listed in Category 5 due to "pathogens".
Drinkwater River (9456900)	MA94-21_2004	5	5	Retained in Category 5 ("metals") Add "Organic enrichment/low DO", "nutrients", "noxious aquatic plants", "turbidity", "pathogens"
Ellisville Harbor	MA94-34_2006	--	5	New segment – Listed in Category 5 due to "pathogens".
Forge Pond (94037)	MA94037_2004	5	5	Retained in Category 5 ("noxious aquatic plants", "turbidity", "exotic species - <i>Cabomba caroliniana</i> and <i>Potamogeton crispis</i> ") Add "Organic enrichment/low DO", "nutrients", "pathogens", "objectionable deposits"
French Stream (9456950)	MA94-03_2004	5	5	Retained in Category 5 ("Organic enrichment/low DO", "unknown toxicity", "nutrients", "pathogens") Add "cause unknown".
Green Harbor River (9457275)	MA94-10_2004	3	5	Added to Category 5 due to "noxious aquatic plants", "turbidity", "Flow alteration".
The Gulf (9456075)	MA94-19_2004	3	5	Added to Category 5 due to "pathogens".
Indian Head River (9456800)	MA94-22_2004	3	5	Added to Category 5 due to "metals" (6/29/06 DPH fish consumption advisory). Aquatic life, primary and secondary contact recreation and aesthetic uses supported.
Iron Mine Brook (9456825)	MA94-24_2006	--	5	New segment – Added to Category 5 due to "pathogens".

Waterbody Name	Segment	2004	2006	Notes
Jones River (9457650)	MA94-12_2004	3	5	Added to Category 5 due to "Organic enrichment/low DO", "turbidity", "noxious aquatic plants", "Flow alteration"
Jones River (9457650)	MA94-13_2004	3	5	Added to Category 5 due to "Organic enrichment/low DO", "turbidity", "noxious aquatic plants", "Flow alteration"
Lily Pond (94179)	MA94179_2006	--	5	New segment – Added to Category 5 ("turbidity", "Flow alteration", "exotic species" – <i>Cabomba caroliniana</i> , <i>Myriophyllum heterophyllum</i> and <i>Potamogeton crispus</i>)
Musquashcut Pond	MA94-33_2006	5	5	New segment designation (formerly MA94105) Retained in Category 5 ("Noxious aquatic plants") Add "Organic enrichment/low DO", "nutrients", "pathogens", "Flow alteration"
North River (9456250)	MA94-05_2004	5	5	Retained in Category 5 ("pathogens") Add "metals" due to 6/29/06 DPH fish consumption advisory. Aquatic life, secondary contact recreation and aesthetic uses supported
Old Oaken Bucket Pond (94113)	MA94113_2004	3	5	Added to Category 5 ("nutrients", "noxious aquatic plants", "exotic species" – <i>Cabomba caroliniana</i> and <i>Myriophyllum heterophyllum</i>)
Plymouth Harbor (94905)	MA94-16_2004	5	5	Retained in Category 5 ("pathogens") Add "cause unknown"
Russell Millpond (94132)	MA94132_2004	5	5	Retained in Category 5 ("noxious aquatic plants") Add "Flow alteration"
Second Herring Brook (9456450)	MA94-31_2006	--	5	New segment – Added to Category 5 due to "pathogens"
Studleys Pond (94151)	MA94151_2004	2	5	Added to Category 5 due to "pathogens"
Third Herring Brook (9456500)	MA94-27_2006	--	5	New segment – Added to Category 5 due to "pathogens". Aquatic life, secondary contact recreation and aesthetic uses supported.
Torrey Pond (94157)	MA94157_2004	5	4c	Added to Category 4c (-Exotic species*) "Noxious aquatic plants" and "turbidity" removed as stressors due to new assessment
Wampatuck Pond (94168)	MA94168_2004	5	5	Retained in Category 5 ("noxious aquatic plants") Add "nutrients", "Organic enrichment/low DO", "turbidity", "exotic species" – <i>Cabomba caroliniana</i>
Taunton				
Beaver Brook (6237350)	MA62-09_2004	3	5	Added to Category 5 due to "pathogens"
Broad Cove (62022)	MA62022_2004	2	5	Segment designation changed to MA62-50. Listed in Category 5 due to "pathogens"
Matfield River (6236925)	MA62-32_2004	5	5	Retained in Category 5 ("organic enrichment/low DO", "pathogens") Add "nutrients", "noxious aquatic plants", "cause unknown", "taste,odor,color"
Meadow Brook (6237075)	MA62-38_2006	--	5	New segment – Listed in category 5 ("pathogens").
Monponsett Pond (62119)	MA62119_2004	5	5	Retained in Category 5 ("turbidity", "exotic species") Add "nutrients", "noxious aquatic plants" (for algae blooms)
Muddy Cove Brook (6235275)	MA62-51_2006	3	5	New segment – formerly part of segment MA62-23 – Listed in Category 5 due to "pathogens"
Robinson Brook (6235625)	MA62-14_2004	3	5	Added to Category 5 due to "cause unknown", "other habitat alterations"
Lake Sabbatia (62166)	MA62166_2004	4c	5	Added to Category 5 due to "organic enrichment/low DO" ("exotic species" - <i>Myriophyllum heterophyllum</i> , <i>Cabomba caroliniana</i>)
Salisbury Brook (6237275)	MA62-08_2004	5	5	Retained in Category 5 ("siltation", "pathogens") Add "other habitat alterations"
Salisbury Plain River (6237100)	MA62-06_2004	5	5	Retained in Category 5 ("Organic enrichment/low DO", "pathogens", "cause unknown") Add "nutrients", "objectionable deposits", "turbidity", "taste,odor,color", "noxious aquatic plants"
Sassaquin Pond (62232)	MA62232_2004	2	5	Added to Category 5 due to "noxious aquatic plants", "pathogens"
Segreganset River (6235300)	MA62-55_2006	3	5	New segment – formerly part of segment MA62-18 – Added to Category 5 due to "pathogens"
Shumatuscasant River (6237025)	MA62-33_2004	3	5	Listed in category 5 ("pathogens", "siltation", "Organic enrichment/low DO", "other habitat alterations").
Taunton River (6235000)	MA62-04_2004	5	5	Retained in Category 5 ("pathogens", "organic enrichment/low DO") Add "cause unknown" (reduced abundance and diversity of fish)
Trout Brook (6237175)	MA62-07_2004	5	5	Retained in Category 5 ("pathogens", "organic enrichment/low DO", "siltation") Add "turbidity", "suspended solids"
Unnamed tributary to Cedar Swamp River	MA62-42_2006	--	5	Listed in Category 5 due to "cause unknown". Primary and secondary contact recreation and aesthetic uses supported.

Waterbody Name	Segment	2004	2006	Notes
Unnamed tributary	MA62-48_2006	--	5	New segment – Listed in Category 5 (“thermal modifications”, “cause unknown”, “flow alteration”, “other habitat alterations”)
Westfield				
Congamond Lakes (32021)	MA32021_2002	4c	5	Added to Category 5 due to “organic enrichment/low DO”; “exotic species” (<i>Myriophyllum spicatum</i>); aesthetics supported
Congamond Lakes (32022)	MA32022_2002	4c	5	Added to Category 5 due to “organic enrichment/low DO”; “exotic species” (<i>Myriophyllum spicatum</i>); aesthetics supported
Little River (3208725)	MA32-08_2002	3	5	Added to Category 5 due to “pathogens”.
Little River	MA32-36	--	5	New segment – formerly part of segment 32-26 – Added to Category 5 due to “siltation” Aesthetic use supported.
Moose Meadow Brook (3209700)	MA32-23_2002	3	5	Added to Category 5 due to “pathogens” and “turbidity”.
Westfield River (3208250)	MA32-04_2002	2	5	Added to Category 5 due to “pathogens” Aquatic life and aesthetic uses supported
Westfield River (3208250)	MA32-05_2002	3	5	Added to Category 5 due to “unknown causes”, “noxious aquatic plants”, “turbidity” and “taste,odor,color”
Miscellaneous watersheds				
Boston Harbor (Weymouth/Weir)	MA74025	3	5	Whitman’s Pond (DPH fish consumption advisory - DDT) – Added to Category 5 due to “pesticides”
Buzzards Bay	MA95110	5	5	New Bedford Reservoir - Add “metals” and “pesticides” due to 6/29/06 DPH fish consumption advisory
	MA95125	4c	5	Sampson Pond - Add “metals” and “pesticides” due to 6/29/06 DPH fish consumption advisory
Charles	MA72-01	5	5	(Flow alteration*) added as a stressor based on CRWA comment
	MA72-09	5	5	Stop River – “Nutrients” added as a stressor based on CRWA comment
	MA72-10	5	5	Stop River – “Nutrients” added as a stressor based on CRWA comment
Housatonic	MA21071	--	5	New segment – Moorewood Lake (DPH fish consumption advisory) – Added to Category 5 due to “priority organics”
	MA21042	3	5	Goodrich Pond (DPH fish consumption advisory - PCBs) – Added to Category 5 due to “priority organics”
	MA21083	4c	5	Pontoosuc Lake (DPH fish consumption advisory revised to include DDT) – Add “pesticides”
Ipswich	MA92-06	5	5	Retained in Category 5 (“nutrients”, “organic enrichment/low DO”). Add “metals” (6/29/06 DPH fish consumption advisory)
	MA92-15	5	5	Retained in Category 5 (“organic enrichment/low DO”). Add “metals” (6/29/06 DPH fish consumption advisory)
Millers	MA35047	4c	5	Lake Monomonac (6/29/06 DPH fish consumption advisory – “metals”)
Ten Mile	MA52011	5	5	Dodgeville Pond - Retained in Category 5. Add “pesticides”
	MA52-03	5	5	Ten Mile River - Retained in Category 5. Add “pesticides”
			24	126 “pollutants” in need of TMDLs 4 “pollutants” with approved TMDLs 40 4c impairments (“pollution”) not requiring TMDLs (e.g., exotic species, flow alteration, habitat alterations, etc.) 44 segments added to Category 5 (TMDLs needed) due to “pollutants”

Appendix 3

303(d) (Category 5) Impairments and Segments removed from 2004 to 2006 Integrated List Cycles

Waterbody Name	Segment	2004	2006	Notes
Concord				
Assabet River (8246775)	MA82B-01_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "pathogens") Add "flow alteration", "cause unknown". "Organic enrichment/low DO" {CN201.0} no longer an impairment based on 2001 assessment – TMDL is still protective.
Assabet River (8246775)	MA82B-06_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "Organic enrichment/low DO" {CN201.0}, "noxious aquatic plants" {CN201.0}, "pathogens", "metals", "priority organics", "thermal modifications", "taste,odor,color") Add "objectionable deposits", "exotic species" <i>Cabomba caroliniana</i> , <i>Potamogeton crispus</i> , <i>Trapa natans</i> . "Suspended solids" removed as a stressor based on 2001 assessment.
Assabet River (8246775)	MA82B-07_2004	5	5	Retained in Category 5 ("nutrients" {CN201.0}, "pathogens") "Organic enrichment/low DO" {CN201.0} no longer an impairment based on 2001 assessment – TMDL is still protective.
Hop Brook (8247825)	MA82A-05_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "noxious aquatic plants") "Suspended solids" removed based on 2001 assessment
Hop Brook (8247825) formerly referred to as Wash Brook	MA82A-06_2004	5	5	Retained in Category 5 ("nutrients", "organic enrichment/low DO", "noxious aquatic plants") "Suspended solids" removed based on 2001 assessment
Indian Brook (8248400)	MA82A-24	5	2	New segment – formerly part of segment MA82A-12 – Removed "cause unknown" based on 2001 assessment. Aquatic life and aesthetic uses supported
Walden Pond (82109)	MA82109_2004	5	5	Retained in Category 5 due to "metals". Removed "Organic enrichment/Low DO" based on 2001 assessment
South Coastal				
Plymouth Bay (94906)	MA94-17_2004	5	2	"Pathogens" removed based on 2001 assessment. Aquatic life, shellfishing, primary and secondary contact recreation and aesthetic uses supported
Torrey Pond (94157)	MA94157_2004	5	4c	Added to Category 4c (-Exotic species*) "Noxious aquatic plants" and "turbidity" removed as stressors due to new assessment
Taunton				
Salisbury Plain River (6237100)	MA62-05_2004	5	5	Retained in Category 5 ("siltation", "Organic enrichment/low DO", "pathogens", "other habitat alterations") Remove "suspended solids"
Wading River (6235450)	MA62-49_2006	5	5	New segment – formerly part of segment MA62-17 –Retained in Category 5 due to "pathogens". Remove "cause unknown" and "Organic enrichment/low DO". Aquatic life and Aesthetic uses supported.
Westfield				
Powdermill Brook (3208575)	MA32-09_2002	5	5	Retained in Category 5 ("siltation", "suspended solids", "turbidity") "Pathogens" removed based on 2001 assessment

Waterbody Name	Segment	2004	2006	Notes
Miscellaneous Watersheds				
Blackstone	MA51-03	5	5	Removed "chlorine" as a cause due to conversion of UBWPAD to dechlorination and the lack of detectable TRC in upstream toxicity test dilution water
Boston Harbor (Neponset)	MA73002	5	3	Bird Pond erroneously listed for "priority organics" – DPH health advisory for PCBs only applies further downstream – does not include Bird Pond
Cape Cod	MA96-47	5	4a	Crows Pond - TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-49	5	4a	Frost Fish Creek – TMDL approved for "pathogens" [4/28/2005-CN207.0] and "nutrients" [6/21/2006-CN206.0]
	MA96-52	5	4a	Mill Pond - TMDL approved for "nutrients" [6/21/2006-CN206.0]
	MA96-51	5	4a	Muddy Creek – TMDL approved for "pathogens" [4/28/2005-CN208.0] and "nutrients" [6/21/2006-CN206.0]
Chicopee	MA36-20	5	3	Cranberry River – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Spencer POTW. Segment unassessed.
Connecticut	MA34-06	5	5	Lampson Brook – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Belchertown POTW
	MA34-23	5	5	Weston Brook – Removed "chlorine" as a cause due to implementation of U-V light for disinfection at Belchertown POTW
Millers	MA35-09	5	5	Beaver Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-17	5	5	Boyce Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-12	5	5	East Branch Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-16	5	5	Keyup Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-13	5	5	Lawrence Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-19	5	5	Lyons Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-01	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-02	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-03	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-04	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-05	5	5	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-20	5	3	Millers River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-15	5	5	Mormon Hollow Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-06	5	2	Otter River - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory). Aesthetic use supported
	MA35-07	5	5	Otter River - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory)
	MA35-08	5	5	Otter River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-10	5	2	Priest Brook - Remove "metals" and "priority organics" (6/29/06 DPH fish consumption advisory) Aquatic life and aesthetics uses attained.
	MA35-14	5	5	Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-11	5	5	West Branch Tully River - Remove "metals" (6/29/06 DPH fish consumption advisory)
	MA35-18	5	5	Whetstone Brook - Remove "metals" (6/29/06 DPH fish consumption advisory)
Mount Hope Bay	MA61-08	5	4a	Kickamuit River - TMDL approved for "pathogens" [9/29/2006-CN285.0]
Narragansett Bay	MA53-03	5	4a	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized
	MA53-04	5	5	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized

Waterbody Name	Segment	2004	2006	Notes
	MA53-05	5	4a	Palmer River TMDL - [9-22-2004 – CN182.0] added to "pathogens" – accidentally over - looked when 2004 list was finalized
Ten Mile	MA52-09	5	4c	"Flow alteration" is the only stressor – erroneously listed in Category 5 in the past.
			16	42 pollutants removed from Category 5 based on new assessments; WQS met 9 pollutants removed from Category 5 due to an approved TMDL 1 non-pollutant moved from Category 5 to 4c 16 waterbody segments removed from Category 5